

50		55		60
Phe Gly Lys Ala Trp Lys His Ser Tyr Val Cys Glu Thr His Leu Cys				
65		70		75
Gln Gly Lys Asp Ser Lys Leu Lys Phe Phe Ser Cys Leu Leu Val Thr				
	85		90	95
Arg Thr Trp Leu Trp Ser Val Thr Leu Ala				
	100		105	

&lt;210&gt; 2408

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2408

Met Pro Phe Pro Pro Arg Pro Ala Pro Arg Pro Pro Ser Arg Thr Ala			
1	5	10	15
Ala Leu Gly Glu Asp Glu Asp Gly Arg Lys Val Arg Ala Gly Leu Ser			
	20	25	30
Thr Gly Lys Arg Glu Gln Asp Gly Asp Phe Gly Arg Gln Trp Gly Glu			
	35	40	45
Leu Met Gly Arg Val Gln Ala Pro Phe Leu Gln Pro Leu Ala Thr Trp			
	50	55	60
Ser Ser Asp Gly Gly Ala Val Leu Ser Leu Thr Pro Glu Thr Leu Ile			
	65	70	75
Pro Ala Val Leu Arg Gly Val Asp Asn Lys Phe His Phe Pro Ser Pro			
	85	90	95
Val Leu Phe Trp Glu Val Gly Thr Pro Gly Phe Gly Gly			
	100	105	

&lt;210&gt; 2409

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2409

Met Ile Ser Ile Thr Glu Trp Gln Lys Ile Gly Val Gly Ile Thr Gly  
 1 5 10 15  
 Phe Gly Ile Phe Phe Ile Leu Phe Gly Thr Leu Leu Tyr Phe Asp Ser  
 20 25 30  
 Val Leu Leu Ala Phe Gly Asn Leu Leu Phe Leu Thr Gly Leu Ser Leu  
 35 40 45  
 Ile Ile Gly Leu Arg Lys Thr Phe Trp Phe Phe Phe Gln Arg His Lys  
 50 55 60  
 Leu Lys Gly Thr Ser Phe Leu Leu Gly Gly Val Val Ile Val Leu Leu  
 65 70 75 80  
 Arg Trp Pro Leu Leu Gly Met Phe Leu Glu Thr Tyr Gly Phe Phe Ser  
 85 90 95  
 Leu Phe Lys Gly Phe Phe Pro Val Ala Phe Gly Phe Leu Gly Asn Val  
 100 105 110  
 Cys Asn Ile Pro Phe Leu Gly Ala Leu Phe Arg Arg Leu Gln Gly Thr  
 115 120 125  
 Ser Ser Met Val  
 130

&lt;210&gt; 2410

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2410

Met Ala Glu Ala Ser Ser Ala Asn Leu Gly Ser Gly Cys Glu Glu Lys  
 1 5 10 15  
 Arg His Glu Gly Ser Ser Ser Glu Ser Val Pro Pro Gly Thr Thr Ile  
 20 25 30  
 Ser Arg Val Lys Leu Leu Asp Thr Met Val Asp Thr Phe Leu Gln Lys  
 35 40 45  
 Leu Val Ala Ala Gly Ser Tyr Gln Arg Phe Thr Asp Cys Tyr Lys Cys  
 50 55 60  
 Phe Tyr Gln Leu Gln Pro Ala Met Thr Gln Arg Ile Tyr Asp Lys Phe



65                      70                      75                      80  
 Ile Ala Gln Leu Gln Thr Ser Ile Arg Glu Glu Ile Ser Asp Ile Lys  
                             85                      90                      95  
 Glu Glu Gly Asn Leu Glu Ala Val Leu Asn Ala Leu Asp Lys Ile Val  
                             100                      105                      110  
 Glu Glu Gly Lys Val Arg Lys Glu Pro Ala Cys Asn Gly Thr Pro Cys  
                             115                      120                      125  
 Gly Ala Met Cys Arg Asn Arg Arg Pro Arg Thr Ser Ser Trp Gln Met  
                             130                      135                      140  
 Pro Ser Trp Gln Gly Gly Gly Arg Trp Arg Ser Cys Ser Tyr Arg Ser  
 145                      150                      155                      160  
 Arg Pro Ser Ser Arg Pro Gly Arg Leu Tyr Thr Glu Asn Arg Gly Ser  
                             165                      170                      175  
 Trp Leu Leu Cys  
                             180

&lt;210&gt; 2411

&lt;211&gt; 409

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2411

Met Gly Ser Gln Ala Ala Ala Glu Trp Arg Asn Trp Ala Ser Trp Glu  
   1                      5                      10                      15  
 Val Ser Ser Ser Leu Ser Gly Cys Ser Met Gly Cys Phe Lys Asp Asp  
                             20                      25                      30  
 Arg Ile Val Phe Trp Thr Trp Met Phe Ser Thr Tyr Phe Met Glu Lys  
                             35                      40                      45  
 Trp Ala Pro Arg Gln Asp Asp Met Leu Phe Tyr Val Arg Arg Lys Leu  
                             50                      55                      60  
 Ala Tyr Ser Gly Ser Glu Ser Gly Ala Asp Gly Arg Lys Ala Ala Glu  
 65                      70                      75                      80  
 Pro Glu Val Glu Val Glu Val Tyr Arg Arg Asp Ser Lys Lys Leu Pro  
                             85                      90                      95  
 Gly Leu Gly Asp Pro Asp Ile Asp Trp Glu Glu Ser Val Cys Leu Asn

100	105	110
Leu Ile Leu Gln Lys Leu Asp Tyr Met Val Thr Cys Ala Val Cys Thr		
115	120	125
Arg Ala Asp Gly Gly Asp Ile His Ile His Lys Lys Lys Ser Gln Gln		
130	135	140
Val Phe Ala Ser Pro Ser Lys His Pro Met Asp Ser Lys Gly Glu Glu		
145	150	155
Ser Lys Ile Ser Tyr Pro Asn Ile Phe Phe Met Ile Asp Ser Phe Glu		
165	170	175
Glu Val Phe Ser Asp Met Thr Val Gly Glu Gly Glu Met Val Cys Val		
180	185	190
Glu Leu Val Ala Ser Asp Lys Thr Asn Thr Phe Gln Gly Val Ile Phe		
195	200	205
Gln Gly Ser Ile Arg Tyr Glu Ala Leu Lys Lys Val Tyr Asp Asn Arg		
210	215	220
Val Ser Val Ala Ala Arg Met Ala Gln Lys Met Ser Phe Gly Phe Tyr		
225	230	235
Lys Tyr Ser Asn Met Glu Phe Val Arg Met Lys Gly Pro Gln Gly Lys		
245	250	255
Gly His Ala Glu Met Ala Val Ser Arg Val Ser Thr Gly Asp Thr Ser		
260	265	270
Pro Cys Gly Thr Glu Glu Asp Ser Ser Pro Ala Ser Pro Met His Glu		
275	280	285
Arg Val Thr Ser Phe Ser Thr Pro Pro Thr Pro Glu Arg Asn Asn Arg		
290	295	300
Pro Ala Phe Phe Ser Pro Ser Leu Lys Arg Lys Val Pro Arg Asn Arg		
305	310	315
Ile Ala Glu Met Lys Lys Ser His Ser Ala Asn Asp Ser Glu Glu Phe		
325	330	335
Phe Arg Glu Asp Asp Gly Gly Ala Asp Leu His Asn Ala Thr Asn Leu		
340	345	350
Arg Ser Arg Ser Leu Ser Gly Thr Gly Arg Ser Leu Val Gly Ser Trp		
355	360	365
Leu Lys Leu Asn Arg Ala Asp Gly Asn Phe Leu Leu Tyr Ala His Leu		
370	375	380
Thr Tyr Val Thr Leu Pro Leu His Arg Ile Leu Thr Asp Ile Leu Glu		

&lt;400&gt; 2412

Met	Trp	Glu	Leu	Asp	Lys	Ala	Ser	Tyr	Glu	Ile	Lys	Lys	Val	Trp	Tyr
1					5				10					15	
Gly	Arg	Thr	Ile	Ile	Arg	Ser	Ala	Tyr	Lys	Leu	Phe	Tyr	Glu	Ala	Ala
				20					25					30	
Gln	Glu	Leu	Leu	Asp	Gly	Asn	Leu	Ser	Val	Val	Asp	Asp	Ile	Pro	Glu
			35					40					45		
Phe	Lys	Asp	Leu	Asn	Glu	Lys	Ser	Arg	Gln	Ala	Lys	Leu	Glu	Glu	Leu
	50						55				60				
Val	Trp	Ala	Ile	Gly	Lys	Leu	Thr	Asp	Ile	Ala	Arg	His	Val	Arg	Ala
65					70					75				80	
Lys	Arg	Asp	Gly	Cys	Gly	Ala	Leu	Glu	Leu	Glu	Gly	Val	Glu	Val	Cys
				85					90					95	
Val	Gln	Leu	Asp	Asp	Lys	Lys	Asn	Ile	His	Asp	Leu	Ile	Pro	Lys	Gln
			100					105					110		
Pro	Leu	Glu	Val	His	Glu	Thr	Val	Ala	Glu	Cys	Met	Ile	Leu	Ala	Asn
	115						120					125			
His	Trp	Val	Ala	Lys	Lys	Ile	Trp	Glu	Ser	Phe	Pro	His	Gln	Ala	Leu
	130					135				140					
Leu	Arg	Gln	His	Pro	Pro	Pro	His	Gln	Glu	Phe	Phe	Ser	Glu	Leu	Arg
145				150					155					160	
Glu	Cys	Ala	Lys	Ala	Lys	Gly	Phe	Phe	Ile	Asp	Thr	Arg	Tyr	Ser	Ser
			165					170					175		
Phe	Glu	Gly	Ala	Glu	Glu	Trp	Ser	Gly	Met	Leu	Tyr	Ile			
			180					185							

&lt;210&gt; 2413

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2413

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Met Thr Lys Arg Gly Gln Gly Ile Ala Trp Ala Val Ala Ser Glu Gly
  1             5             10             15
Ala Ser Pro Lys Pro Trp Trp Leu Ser Tyr Gly Val Val Pro Val Gly
          20             25             30
Val Gln Lys Thr Arg Val Glu Leu Trp Glu Pro Leu Pro Gln Phe Gln
          35             40             45
Arg Met Tyr Gly Asn Thr Trp Met Ser Arg Gln Lys Ser Ala Ala Trp
          50             55             60
Glu Glu Pro Thr Cys Arg Thr Ser Thr Met Ala Arg His Arg Gly Asn
          65             70             75             80
Val Gly Leu Glu Ser Pro His Arg Val Pro Thr Gly Ala Leu Pro Ser
          85             90             95
Gly Ala Val Lys Arg Gly Pro Leu Ser Ser Arg Pro Leu Lys Cys Arg
          100            105            110
Ser Thr Asp Ser Leu His Cys Ala Pro Gly Asn Ala Gly Thr Gln Gly
          115            120            125
Gln Pro Met Lys Ala Ala Ala Gly Ala Ala Pro Cys Arg Ala Thr Gly
          130            135            140
Val Glu Leu Pro Asn Ser Leu Lys Asp His Pro Phe Leu Val Ser Ser
          145            150            155            160
Cys Leu Gly Cys Glu Thr Trp Ser Gln Gly Arg Ser Phe Gln Ser Phe
          165            170            175
Asn Ile

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&lt;210&gt; 2414

&lt;211&gt; 443

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2414

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Met Val Asp Thr Val Leu Tyr Asp Asn Thr Gln Leu Gln Leu Lys Ala
 1             5             10             15
Glu Ser Pro Trp Glu Ala Leu Asp Trp Gly Gln Lys Leu Trp Glu Val
          20             25             30
Val His Ala Ala Val Pro Gly Tyr Met Gly Arg Gln Asn Glu Leu Thr
          35             40             45
Ile Ser Pro Gly Leu Gly His His Asp Asp Tyr Thr Gln Asn His Ser
          50             55             60
Phe Gln Lys Lys Thr Ser Gly Leu Leu Pro Pro Ser Pro Val Leu Asp
 65             70             75             80
Ser Ser Lys Gln Tyr Gln Asn Ile Leu Lys Ser Gly Thr Leu Tyr Arg
          85             90             95
Leu Thr Val Gln Asn Asn Trp Lys Ala Phe Thr Phe Val Leu Ser Arg
          100            105            110
Ala Tyr Leu Met Ala Phe Gln Pro Gly Lys Leu Asp Glu Asp Pro Leu
          115            120            125
Leu Ser Tyr Asn Val Asp Val Cys Leu Ala Val Gln Met Asp Asn Leu
          130            135            140
Asp Gly Cys Asp Ser Cys Phe Gln Val Ile Phe Pro Gln Asp Val Leu
          145            150            155            160
Arg Leu Arg Ala Glu Thr Arg Gln Arg Ala Gln Glu Trp Met Glu Ala
          165            170            175
Leu Lys Ile Ala Ala Asn Val Ala Arg Ser Ser Glu Gln Asn Leu Gln
          180            185            190
Val Thr Leu Arg Asn Lys Pro Lys Asp Gln Met Gly Gly His Glu Leu
          195            200            205
Arg Lys Asn Lys Arg Gln Ser Val Thr Thr Ser Phe Leu Ser Ile Leu
          210            215            220
Thr Thr Leu Ser Leu Glu Arg Gly Leu Thr Ala Gln Ser Phe Lys Cys
          225            230            235            240

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<210> 2415

&lt;211&gt; 485

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2415

Met Tyr Thr Ser His Glu Asp Ile Gly Tyr Asp Phe Glu Asp Gly Pro  
1 5 10 15

Lys	Asp	Lys	Lys	Thr	Leu	Lys	Pro	His	Pro	Asn	Ile	Asp	Gly	Gly	Trp
			20					25						30	
Ala	Trp	Met	Met	Val	Leu	Ser	Ser	Phe	Phe	Val	His	Ile	Leu	Ile	Met
		35					40					45			
Gly	Ser	Gln	Met	Ala	Leu	Gly	Val	Leu	Asn	Val	Glu	Trp	Leu	Glu	Glu
	50					55					60				
Phe	His	Gln	Ser	Arg	Gly	Leu	Thr	Ala	Trp	Val	Ser	Ser	Leu	Ser	Met
65					70					75					80
Gly	Ile	Thr	Leu	Ile	Val	Gly	Pro	Phe	Ile	Gly	Leu	Phe	Ile	Asn	Thr
				85					90					95	
Cys	Gly	Cys	Arg	Gln	Thr	Ala	Ile	Ile	Gly	Gly	Leu	Val	Asn	Ser	Leu
			100					105					110		
Gly	Trp	Val	Leu	Ser	Ala	Tyr	Ala	Ala	Asn	Val	His	Tyr	Leu	Phe	Ile
		115					120					125			
Thr	Phe	Gly	Val	Ala	Ala	Gly	Leu	Gly	Ser	Gly	Met	Ala	Tyr	Leu	Pro
	130					135					140				
Ala	Val	Val	Met	Val	Gly	Arg	Tyr	Phe	Gln	Lys	Arg	Arg	Ala	Leu	Ala
145					150					155					160
Gln	Gly	Leu	Ser	Thr	Thr	Gly	Thr	Gly	Phe	Gly	Thr	Phe	Leu	Met	Thr
				165					170				175		
Val	Leu	Leu	Lys	Tyr	Leu	Cys	Ala	Glu	Tyr	Gly	Trp	Arg	Asn	Ala	Met
			180					185					190		
Leu	Ile	Gln	Gly	Ala	Val	Ser	Leu	Asn	Leu	Cys	Val	Cys	Gly	Ala	Leu
		195					200					205			
Met	Arg	Pro	Leu	Ser	Pro	Gly	Lys	Asn	Pro	Asn	Asp	Pro	Gly	Glu	Lys
	210					215					220				
Asp	Val	Arg	Gly	Leu	Pro	Ala	His	Ser	Thr	Glu	Ser	Val	Lys	Ser	Thr
225					230					235					240
Gly	Gln	Gln	Gly	Arg	Thr	Glu	Glu	Lys	Asp	Gly	Gly	Leu	Gly	Asn	Glu
			245						250				255		
Glu	Thr	Leu	Cys	Asp	Leu	Gln	Ala	Gln	Glu	Cys	Pro	Asp	Gln	Ala	Gly
		260					265					270			
His	Arg	Lys	Asn	Met	Cys	Ala	Leu	Arg	Ile	Leu	Lys	Thr	Val	Ser	Trp
	275						280					285			
Leu	Thr	Met	Arg	Val	Arg	Lys	Gly	Phe	Glu	Asp	Trp	Tyr	Ser	Gly	Tyr
	290					295					300				

Phe Gly Thr Ala Ser Leu Phe Thr Asn Arg Met Phe Val Ala Phe Ile  
 305 310 315 320  
 Phe Trp Ala Leu Phe Ala Tyr Ser Ser Phe Val Ile Pro Phe Ile His  
 325 330 335  
 Leu Pro Glu Ile Val Asn Leu Tyr Asn Leu Ser Glu Gln Asn Asp Val  
 340 345 350  
 Phe Pro Leu Thr Ser Ile Ile Ala Ile Val His Ile Phe Gly Lys Val  
 355 360 365  
 Ile Leu Gly Val Ile Ala Asp Leu Pro Cys Ile Ser Val Trp Asn Val  
 370 375 380  
 Phe Leu Leu Ala Asn Phe Thr Leu Val Leu Ser Ile Phe Ile Leu Pro  
 385 390 395 400  
 Leu Met His Thr Tyr Ala Gly Leu Ala Val Ile Cys Ala Leu Ile Gly  
 405 410 415  
 Phe Ser Ser Gly Tyr Phe Ser Leu Met Pro Val Val Thr Glu Asp Leu  
 420 425 430  
 Val Gly Ile Glu His Leu Ala Asn Ala Tyr Gly Ile Ile Ile Cys Ala  
 435 440 445  
 Asn Gly Ile Ser Ala Leu Leu Gly Pro Pro Phe Ala Gly Lys Leu Ser  
 450 455 460  
 Glu Val Leu Arg Ala Gln Ser Ala Cys Thr Tyr Gly Ala Leu Cys Tyr  
 465 470 475 480  
 Lys Val Pro Asp Lys  
 485

&lt;210&gt; 2416

&lt;211&gt; 163

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2416

Met Lys Ser Arg Ile Pro Val Val Leu Leu Ala Cys Gly Ser Phe Asn  
 1 5 10 15  
 Pro Ile Thr Asn Met His Leu Arg Met Phe Glu Val Ala Arg Asp His  
 20 25 30



Leu His Gln Thr Ala Val Pro Glu Leu Lys Leu Leu Cys Gly Ala Asp  
           35                    40                    45  
 Val Leu Lys Thr Phe Gln Thr Pro Asn Leu Trp Lys Asp Ala His Ile  
           50                    55                    60  
 Gln Glu Ile Val Glu Lys Phe Gly Leu Val Cys Val Gly Arg Val Gly  
       65                    70                    75                    80  
 His Asp Pro Lys Gly Tyr Ile Ala Glu Ser Pro Ile Leu Arg Met His  
                     85                    90                    95  
 Gln His Asn Ile His Leu Ala Lys Glu Pro Val Gln Asn Glu Ile Ser  
           100                    105                    110  
 Ala Thr Tyr Ile Arg Arg Ala Leu Gly Gln Gly Gln Ser Val Lys Tyr  
           115                    120                    125  
 Leu Ile Pro Asp Ala Val Ile Thr Tyr Ile Lys Asp His Gly Leu Tyr  
           130                    135                    140  
 Thr Lys Gly Ser Thr Trp Lys Gly Lys Ser Thr Gln Ser Thr Glu Gly  
       145                    150                    155                    160  
 Lys Thr Ser

<210> 2417

<211> 308

<212> PRT

<213> Homo sapiens

<400> 2417

Met Gly Asn Tyr Gln Glu Tyr Leu Lys Thr Leu Ala Ser Pro Leu Arg  
       1                    5                    10                    15  
 Glu Ile Asp Pro Asp Gln Pro Lys Arg Leu His Thr Phe Gly Asn Pro  
           20                    25                    30  
 Phe Lys Gln Asp Lys Lys Gly Met Met Ile Asp Glu Ala Asp Glu Phe  
           35                    40                    45  
 Val Ala Gly Pro Gln Asn Lys Val Lys Arg Pro Gly Glu Pro Asn Ser  
           50                    55                    60  
 Pro Met Ser Ser Lys Arg Arg Arg Ser Met Ser Leu Leu Leu Arg Lys  
       65                    70                    75                    80

Pro Gln Thr Pro Pro Thr Val Thr Asn His Val Gly Gly Lys Gly Pro  
                     85                    90                    95  
 Pro Ser Ala Ser Trp Phe Pro Ser Tyr Pro Asn Leu Ile Lys Pro Thr  
                     100                    105                    110  
 Leu Val His Thr Asp Ala Thr Ile Ile His Asp Gly His Glu Glu Lys  
                     115                    120                    125  
 Met Glu Asn Gly Gln Ile Thr Pro Asp Gly Phe Leu Ser Lys Ser Ala  
                     130                    135                    140  
 Pro Ser Glu Leu Ile Asn Met Thr Gly Asp Leu Met Pro Pro Asn Gln  
 145                    150                    155                    160  
 Val Asp Ser Leu Ser Asp Asp Phe Thr Ser Leu Ser Lys Asp Gly Leu  
                     165                    170                    175  
 Ile Gln Lys Pro Gly Ser Asn Ala Phe Val Gly Gly Ala Lys Asn Cys  
                     180                    185                    190  
 Ser Leu Ser Val Asp Asp Gln Lys Asp Pro Val Ala Ser Thr Leu Gly  
                     195                    200                    205  
 Ala Met Pro Asn Thr Leu Gln Ile Thr Pro Ala Met Ala Gln Gly Ile  
                     210                    215                    220  
 Asn Ala Asp Ile Lys His Gln Leu Met Lys Glu Val Arg Lys Phe Gly  
 225                    230                    235                    240  
 Arg Lys Tyr Glu Arg Ile Phe Ile Leu Leu Glu Glu Val Gln Gly Pro  
                     245                    250                    255  
 Leu Glu Met Lys Lys Gln Phe Val Glu Phe Thr Ile Lys Glu Ala Ala  
                     260                    265                    270  
 Arg Phe Lys Arg Arg Val Leu Ile Gln Tyr Leu Glu Lys Val Leu Glu  
                     275                    280                    285  
 Lys Ile Asn Ser His His Leu His Asn Asn Ile Ser His Ile Asn Ser  
                     290                    295                    300  
 Arg Ser Ser Cys  
 305

<210> 2418

<211> 529

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2418

Met Glu Leu Met Ile Gln Glu Lys Ser Phe Gly Asn Ser Leu Leu Leu  
 1 5 10 15  
 Asn Ser Ala Met Gln Pro Asp Leu Thr Val Ser Arg Thr Tyr Ser Gly  
 20 25 30  
 Pro Ile Cys Leu Gln Asp Pro Leu Asp Lys Glu Leu Met Thr Glu Ser  
 35 40 45  
 Ser Leu Phe Asn Pro Leu Ser Asp Ile Lys Val Lys Val Gln Ser Ser  
 50 55 60  
 Phe Met Val Ser Leu Gly Val Ser Glu Arg Ala Glu Tyr His Gly Lys  
 65 70 75 80  
 Asn His Ser Arg Thr Phe Pro His Gly Asn Asn His Ser Phe Ser Thr  
 85 90 95  
 Met His Pro Arg Asn Lys Met Pro Tyr Ile Gln Asn Leu Ser Ser Leu  
 100 105 110  
 Pro Thr Arg Thr Glu Leu Arg Thr Thr Gly Val Phe Gly His Leu Gly  
 115 120 125  
 Gly Arg Leu Val Met Pro Asn Lys Gly Val Ser Leu Leu Ile Pro His  
 130 135 140  
 Gly Ala Ile Pro Glu Glu Asn Ser Trp Glu Ile Tyr Met Ser Ile Asn  
 145 150 155 160  
 Gln Gly Glu Pro Ser Leu Gln Ser Asp Gly Ser Glu Val Leu Leu Ser  
 165 170 175  
 Pro Glu Val Thr Cys Gly Pro Pro Asp Met Ile Val Thr Thr Pro Phe  
 180 185 190  
 Ala Leu Thr Ile Pro His Cys Ala Asp Val Ser Ser Glu His Trp Asn  
 195 200 205  
 Ile His Leu Lys Lys Arg Thr Gln Gln Gly Lys Trp Glu Glu Val Met  
 210 215 220  
 Ser Val Glu Asp Glu Ser Thr Ser Cys Tyr Cys Leu Leu Asp Pro Phe  
 225 230 235 240  
 Ala Cys His Val Leu Leu Asp Ser Phe Gly Thr Tyr Ala Leu Thr Gly  
 245 250 255  
 Glu Pro Ile Thr Asp Cys Ala Val Lys Gln Leu Lys Val Ala Val Phe  
 260 265 270

Gly Cys Met Ser Cys Asn Ser Leu Asp Tyr Asn Leu Arg Val Tyr Cys  
 275 280 285  
 Val Asp Asn Thr Pro Cys Ala Phe Gln Glu Val Val Ser Asp Glu Arg  
 290 295 300  
 His Gln Gly Gly Gln Leu Leu Glu Glu Pro Lys Leu Leu His Phe Lys  
 305 310 315 320  
 Gly Asn Thr Phe Ser Leu Gln Ile Ser Val Leu Asp Ile Pro Pro Phe  
 325 330 335  
 Leu Trp Arg Ile Lys Pro Phe Thr Ala Cys Gln Glu Val Pro Phe Ser  
 340 345 350  
 Arg Val Trp Cys Ser Asn Arg Gln Pro Leu His Cys Ala Phe Ser Leu  
 355 360 365  
 Glu Arg Tyr Thr Pro Thr Thr Thr Gln Leu Ser Cys Lys Ile Cys Ile  
 370 375 380  
 Arg Gln Leu Lys Gly His Glu Gln Ile Leu Gln Val Gln Thr Ser Ile  
 385 390 395 400  
 Leu Glu Ser Glu Arg Glu Thr Ile Thr Phe Phe Ala Gln Glu Asp Ser  
 405 410 415  
 Thr Phe Pro Ala Gln Thr Gly Pro Lys Ala Phe Lys Ile Pro Tyr Ser  
 420 425 430  
 Ile Arg Gln Arg Ile Cys Ala Thr Phe Asp Thr Pro Asn Ala Lys Gly  
 435 440 445  
 Lys Asp Trp Gln Met Leu Ala Gln Lys Asn Ser Ile Asn Arg Asn Leu  
 450 455 460  
 Ser Tyr Phe Ala Thr Gln Ser Ser Pro Ser Ala Val Ile Leu Asn Leu  
 465 470 475 480  
  
 Trp Glu Ala Arg His Gln His Asp Gly Asp Leu Asp Ser Leu Ala Cys  
 485 490 495  
 Ala Leu Glu Glu Ile Gly Arg Thr His Thr Lys Leu Ser Asn Ile Ser  
 500 505 510  
 Glu Ser Gln Leu Asp Glu Ala Asp Phe Asn Tyr Ser Arg Gln Asn Gly  
 515 520 525  
 Leu

&lt;210&gt; 2419

&lt;211&gt; 241

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2419

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Met Ala Gln Glu Lys Met Glu Leu Asp Leu Glu Pro Asp Thr Ser Tyr
  1             5             10            15
Gly Gly Thr Leu Arg Arg Ser Ser Ser Ala Pro Leu Ile His Gly Leu
      20             25            30
Ser Asp Leu Ser Gln Val Phe Gln Pro Tyr Thr Leu Arg Thr Arg Arg
      35             40            45
Asn Ser Thr Thr Ile Met Ser Arg His Ser Leu Leu Leu Ser Ser Ser
      50             55            60
Pro Asn Arg Ile Pro Ser Ser Arg Leu His Gln Ile Lys Arg Glu Glu
      65             70            75            80
Gly Leu Asp Met Val Asn Arg Glu Thr Ala His Glu Arg Glu Met Gln
      85             90            95
Thr Ala Met Gln Ile Ser Gln Ser Trp Asp Glu Ser Leu Ser Leu Ser
      100            105            110
Asp Ser Asp Phe Asp Lys Pro Glu Lys Leu Tyr Ser Pro Lys Arg Ile
      115            120            125
Asp Phe Thr Pro Val Ser Pro Ala Pro Ser Pro Thr Arg Gly Phe Gly
      130            135            140
Lys Met Phe Val Ser Ser Ser Gly Leu Pro Pro Ser Pro Val Pro Ser
      145            150            155            160
Pro Arg Arg Phe Ser Arg Arg Ser Gln Ser Pro Val Lys Cys Ile Arg
      165            170            175
Pro Ser Val Leu Gly Pro Leu Lys Arg Lys Gly Glu Met Glu Thr Glu
      180            185            190
Ser Gln Pro Lys Arg Leu Phe Gln Gly Thr Thr Asn Met Leu Ser Pro
      195            200            205
Asp Ala Ala Gln Leu Ser Asp Leu Ser Ser Trp Trp Cys Tyr Gln Gly
      210            215            220
Glu Glu Ile Pro Ala Leu Thr Arg Cys Val Glu His Leu Gln Met Asn

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225                      230                      235                      240  
 Glu

<210> 2420

<211> 622

<212> PRT

<213> Homo sapiens

<400> 2420

Met Cys Gly Leu Gln Phe Ser Leu Pro Cys Leu Arg Leu Phe Leu Val  
           1                          5                          10                          15  
 Val Thr Cys Tyr Leu Leu Leu Leu Leu His Lys Glu Ile Leu Gly Cys  
                           20                          25                          30  
 Ser Ser Val Cys Gln Leu Cys Thr Gly Arg Gln Ile Asn Cys Arg Asn  
                           35                          40                          45  
 Leu Gly Leu Ser Ser Ile Pro Lys Asn Phe Pro Glu Ser Thr Val Phe  
                           50                          55                          60  
 Leu Tyr Leu Thr Gly Asn Asn Ile Ser Tyr Ile Asn Glu Ser Glu Leu  
                           65                          70                          75                          80  
 Thr Gly Leu His Ser Leu Val Ala Leu Tyr Leu Asp Asn Ser Asn Ile  
                           85                          90                          95  
 Leu Tyr Val Tyr Pro Lys Ala Phe Val Gln Leu Arg His Leu Tyr Phe  
                           100                          105                          110  
 Leu Phe Leu Asn Asn Asn Phe Ile Lys Arg Leu Asp Pro Gly Ile Phe  
                           115                          120                          125  
 Lys Gly Leu Leu Asn Leu Arg Asn Leu Tyr Leu Gln Tyr Asn Gln Val  
                           130                          135                          140  
 Ser Phe Val Pro Arg Gly Val Phe Asn Asp Leu Val Ser Val Gln Tyr  
                           145                          150                          155                          160  
 Leu Asn Leu Gln Arg Asn Arg Leu Thr Val Leu Gly Ser Gly Thr Phe  
                           165                          170                          175  
 Val Gly Met Val Ala Leu Arg Ile Leu Asp Leu Ser Asn Asn Asn Ile  
                           180                          185                          190  
 Leu Arg Ile Ser Glu Ser Gly Phe Gln His Leu Glu Asn Leu Ala Cys

195	200	205
Leu Tyr Leu Gly Ser Asn Asn Leu Thr Lys Val Pro Ser Asn Ala Phe		
210	215	220
Glu Val Leu Lys Ser Leu Arg Arg Leu Ser Leu Ser His Asn Pro Ile		
225	230	235
Glu Ala Ile Gln Pro Phe Ala Phe Lys Gly Leu Ala Asn Leu Glu Tyr		
	245	250
Leu Leu Leu Lys Asn Ser Arg Ile Arg Asn Val Thr Arg Asp Gly Phe		
	260	265
Ser Gly Ile Asn Asn Leu Lys His Leu Ile Leu Ser His Asn Asp Leu		
	275	280
Glu Asn Leu Asn Ser Asp Thr Phe Ser Leu Leu Lys Asn Leu Ile Tyr		
	290	295
Leu Lys Leu Asp Arg Asn Arg Ile Ile Ser Ile Asp Asn Asp Thr Phe		
305	310	315
Glu Asn Met Gly Ala Ser Leu Lys Ile Leu Asn Leu Ser Phe Asn Asn		
	325	330
Leu Thr Ala Leu His Pro Arg Val Leu Lys Pro Leu Ser Ser Leu Ile		
	340	345
His Leu Gln Ala Asn Ser Asn Pro Trp Glu Cys Asn Cys Lys Leu Leu		
	355	360
Gly Leu Arg Asp Trp Leu Ala Ser Ser Ala Ile Thr Leu Asn Ile Tyr		
	370	375
Cys Gln Asn Pro Pro Ser Met Arg Gly Arg Ala Leu Arg Tyr Ile Asn		
385	390	395
Ile Thr Asn Cys Val Thr Ser Ser Ile Asn Val Ser Arg Ala Trp Ala		
	405	410
Val Val Lys Ser Pro His Ile His His Lys Thr Thr Ala Leu Met Met		
	420	425
Ala Trp His Lys Val Thr Thr Asn Gly Ser Pro Leu Glu Asn Thr Glu		
	435	440
Thr Glu Asn Ile Thr Phe Trp Glu Arg Ile Pro Thr Ser Pro Ala Gly		
	450	455
Arg Phe Phe Gln Glu Asn Ala Phe Gly Asn Pro Leu Glu Thr Thr Ala		
465	470	475
		480

Val Leu Pro Val Gln Ile Gln Leu Thr Thr Ser Val Thr Leu Asn Leu  
                     485                    490                    495  
 Glu Lys Asn Ser Ala Leu Pro Asn Asp Ala Ala Ser Met Ser Gly Lys  
                     500                    505                    510  
 Thr Ser Leu Ile Cys Thr Gln Glu Val Glu Lys Leu Asn Glu Ala Phe  
                     515                    520                    525  
 Asp Ile Leu Leu Ala Phe Phe Ile Leu Ala Cys Val Leu Ile Ile Phe  
                     530                    535                    540  
 Leu Ile Tyr Lys Val Val Gln Phe Lys Gln Lys Leu Lys Ala Ser Glu  
 545                    550                    555                    560  
 Asn Ser Arg Glu Asn Arg Leu Glu Tyr Tyr Ser Phe Tyr Gln Ser Ala  
                     565                    570                    575  
 Arg Tyr Asn Val Thr Ala Ser Ile Cys Asn Thr Ser Pro Asn Ser Leu  
                     580                    585                    590  
 Glu Ser Pro Gly Leu Glu Gln Ile Arg Leu His Lys Gln Ile Val Pro  
                     595                    600                    605  
 Glu Asn Glu Ala Gln Ala Ile Leu Phe Glu His Ser Ala Leu  
                     610                    615                    620

<210> 2421

<211> 407

<212> PRT

<213> Homo sapiens

<400> 2421

Met Thr Ser Gln Arg Ser Pro Leu Ala Pro Leu Leu Leu Leu Ser Leu  
   1                    5                    10                    15  
 His Gly Val Ala Ala Ser Leu Glu Val Ser Glu Ser Pro Gly Ser Ile  
                     20                    25                    30  
 Gln Val Ala Arg Gly Gln Thr Ala Val Leu Pro Cys Thr Phe Thr Thr  
                     35                    40                    45  
 Ser Ala Ala Leu Ile Asn Leu Asn Val Ile Trp Met Val Thr Pro Leu  
                     50                    55                    60  
 Ser Asn Ala Asn Gln Pro Glu Gln Val Ile Leu Tyr Gln Gly Gly Gln  
                     65                    70                    75                    80



Met Phe Asp Gly Ala Pro Arg Phe His Gly Arg Val Gly Phe Thr Gly			
	85	90	95
Thr Met Pro Ala Thr Asn Val Ser Ile Tyr Ile Asn Asn Thr Gln Leu			
	100	105	110
Ser Asp Thr Gly Thr Tyr Gln Cys Leu Val Asn Asn Leu Pro Asp Ile			
	115	120	125
Gly Gly Arg Asn Ile Gly Val Thr Gly Leu Thr Val Leu Val Pro Pro			
	130	135	140
Ser Ala Pro His Cys Gln Ile Gln Gly Ser Gln Asp Ile Gly Ser Asp			
145	150	155	160
Val Ile Leu Leu Cys Ser Ser Glu Glu Gly Ile Pro Arg Pro Thr Tyr			
	165	170	175
Leu Trp Glu Lys Leu Asp Asn Thr Leu Lys Leu Pro Pro Thr Ala Thr			
	180	185	190
Gln Asp Gln Val Gln Gly Thr Val Thr Ile Arg Asn Ile Ser Ala Leu			
	195	200	205
Ser Ser Ala Gln Pro Arg Asn Ile Gly Leu Ile Ala Gly Ala Ile Gly			
210	215	220	
Thr Gly Ala Val Ile Ile Ile Phe Cys Ile Ala Leu Ile Leu Gly Ala			
225	230	235	240
Phe Phe Tyr Trp Arg Ser Lys Asn Lys Glu Glu Glu Glu Glu Ile			
	245	250	255
Pro Asn Glu Ile Arg Glu Asp Asp Leu Pro Pro Lys Cys Ser Ser Ala			
	260	265	270
Lys Ala Phe His Thr Glu Ile Ser Ser Ser Asp Asn Asn Thr Leu Thr			
	275	280	285
Ser Ser Asn Ala Tyr Asn Ser Arg Tyr Trp Ser Asn Asn Pro Lys Val			
290	295	300	
His Arg Asn Thr Glu Ser Val Ser His Phe Ser Asp Leu Gly Gln Ser			
305	310	315	320
Phe Ser Phe His Ser Gly Asn Ala Asn Ile Pro Ser Ile Tyr Ala Asn			
	325	330	335
Gly Thr His Leu Val Pro Gly Gln His Lys Thr Leu Val Val Thr Ala			
	340	345	350
Asn Arg Gly Ser Ser Pro Gln Val Met Ser Arg Ser Asn Gly Ser Val			
	355	360	365

Ser Arg Lys Pro Arg Pro Pro His Thr His Ser Tyr Thr Ile Ser His  
 370 375 380  
 Ala Thr Leu Glu Arg Ile Gly Ala Val Pro Val Met Val Pro Ala Gln  
 385 390 395 400  
 Ser Arg Ala Gly Ser Leu Val  
 405

<210> 2422

<211> 209

<212> PRT

<213> Homo sapiens

<400> 2422

Met Ala Ser Arg Gly Leu Ser Leu Phe Pro Glu Ser Cys Pro Asp Phe  
 1 5 10 15  
 Cys Cys Gly Thr Cys Asp Asp Gln Tyr Cys Cys Ser Asp Val Leu Lys  
 20 25 30  
 Lys Phe Val Trp Ser Glu Glu Arg Cys Ala Val Pro Glu Ala Ser Val  
 35 40 45  
 Pro Ala Ser Val Glu Pro Val Glu Gln Leu Gly Ser Ala Leu Arg Phe  
 50 55 60  
 Arg Pro Gly Tyr Asn Asp Pro Met Ser Gly Phe Gly Ala Thr Leu Ala  
 65 70 75 80  
 Val Gly Leu Thr Ile Phe Val Leu Ser Val Val Thr Ile Ile Ile Cys  
 85 90 95  
 Phe Thr Cys Ser Cys Cys Cys Leu Tyr Lys Thr Cys Arg Arg Pro Arg  
 100 105 110  
 Pro Val Val Thr Thr Thr Thr Ser Thr Thr Val Val His Ala Pro Tyr  
 115 120 125  
 Pro Gln Pro Pro Ser Val Pro Pro Ser Tyr Pro Gly Pro Ser Tyr Gln  
 130 135 140  
 Gly Tyr His Thr Met Pro Pro Gln Pro Gly Met Pro Ala Ala Pro Tyr  
 145 150 155 160  
 Pro Met Gln Tyr Pro Pro Pro Tyr Pro Ala Gln Pro Met Gly Pro Pro  
 165 170 175

Ala Tyr His Glu Thr Leu Ala Gly Gly Ala Ala Ala Pro Tyr Pro Ala  
                   180                  185                  190  
 Ser Gln Pro Pro Tyr Asn Pro Ala Tyr Met Asp Ala Pro Lys Ala Ala  
                   195                  200                  205  
 Leu

<210> 2423

<211> 590

<212> PRT

<213> Homo sapiens

<400> 2423

Met Gly Phe His Leu Ile Thr Gln Leu Lys Gly Met Ser Val Val Leu  
   1                  5                  10                  15  
 Val Leu Leu Pro Thr Leu Leu Leu Val Met Leu Thr Gly Ala Gln Arg  
                   20                  25                  30  
 Ala Cys Pro Lys Asn Cys Arg Cys Asp Gly Lys Ile Val Tyr Cys Glu  
                   35                  40                  45  
 Ser His Ala Phe Ala Asp Ile Pro Glu Asn Ile Ser Gly Gly Ser Gln  
                   50                  55                  60  
 Gly Leu Ser Leu Arg Phe Asn Ser Ile Gln Lys Leu Lys Ser Asn Gln  
   65                  70                  75                  80  
 Phe Ala Gly Leu Asn Gln Leu Ile Trp Leu Tyr Leu Asp His Asn Tyr  
                   85                  90                  95  
 Ile Ser Ser Val Asp Glu Asp Ala Phe Gln Gly Ile Arg Arg Leu Lys  
                   100                  105                  110  
 Glu Leu Ile Leu Ser Ser Asn Lys Ile Thr Tyr Leu His Asn Lys Thr  
                   115                  120                  125  
 Phe His Pro Val Pro Asn Leu Arg Asn Leu Asp Leu Ser Tyr Asn Lys  
                   130                  135                  140  
 Leu Gln Thr Leu Gln Ser Glu Gln Phe Lys Gly Leu Arg Lys Leu Ile  
   145                  150                  155                  160  
 Ile Leu His Leu Arg Ser Asn Ser Leu Lys Thr Val Pro Ile Arg Val  
                   165                  170                  175

Phe Gln Asp Cys Arg Asn Leu Asp Phe Leu Asp Leu Gly Tyr Asn Arg  
 180 185 190  
 Leu Arg Ser Leu Ser Arg Asn Ala Phe Ala Gly Leu Leu Lys Leu Lys  
 195 200 205  
 Glu Leu His Leu Glu His Asn Gln Phe Ser Lys Ile Asn Phe Ala His  
 210 215 220  
 Phe Pro Arg Leu Phe Asn Leu Arg Ser Ile Tyr Leu Gln Trp Asn Arg  
 225 230 235 240  
 Ile Arg Ser Ile Ser Gln Gly Leu Thr Trp Thr Trp Ser Ser Leu His  
 245 250 255  
 Asn Leu Asp Leu Ser Gly Asn Asp Ile Gln Gly Ile Glu Pro Gly Thr  
 260 265 270  
 Phe Lys Cys Leu Pro Asn Leu Gln Lys Leu Asn Leu Asp Ser Asn Lys  
 275 280 285  
 Leu Thr Asn Ile Ser Gln Glu Thr Val Asn Ala Trp Ile Ser Leu Ile  
 290 295 300  
 Ser Ile Thr Leu Ser Gly Asn Met Trp Glu Cys Ser Arg Ser Ile Cys  
 305 310 315 320  
 Pro Leu Phe Tyr Trp Leu Lys Asn Phe Lys Gly Asn Lys Glu Ser Thr  
 325 330 335  
 Met Ile Cys Ala Gly Pro Lys His Ile Gln Gly Glu Lys Val Ser Asp  
 340 345 350  
 Ala Val Glu Thr Tyr Asn Ile Cys Ser Glu Val Gln Val Val Asn Thr  
 355 360 365  
 Glu Arg Ser His Leu Val Pro Gln Thr Pro Gln Lys Pro Leu Ile Ile  
 370 375 380  
 Pro Arg Pro Thr Ile Phe Lys Pro Asp Val Thr Gln Ser Thr Phe Glu  
 385 390 395 400  
 Thr Pro Ser Pro Ser Pro Gly Phe Gln Ile Pro Gly Ala Glu Gln Glu  
 405 410 415  
 Tyr Glu His Val Ser Phe His Lys Ile Ile Ala Gly Ser Val Ala Leu  
 420 425 430  
 Phe Leu Ser Val Ala Met Ile Leu Leu Val Ile Tyr Val Ser Trp Lys  
 435 440 445  
 Arg Tyr Pro Ala Ser Met Lys Gln Leu Gln Gln His Ser Leu Met Lys  
 450 455 460

Arg Arg Arg Lys Lys Ala Arg Glu Ser Glu Arg Gln Met Asn Ser Pro  
 465 470 475 480  
 Leu Gln Glu Tyr Tyr Val Asp Tyr Lys Pro Thr Asn Ser Glu Thr Met  
 485 490 495  
 Asp Ile Ser Val Asn Gly Ser Gly Pro Cys Thr Tyr Thr Ile Ser Gly  
 500 505 510  
 Ser Arg Glu Cys Glu Met Pro His His Met Lys Pro Leu Pro Tyr Tyr  
 515 520 525  
 Ser Tyr Gly Gln Pro Val Ile Gly Tyr Cys Gln Ala His Gln Pro Leu  
 530 535 540  
 His Val Thr Lys Gly Tyr Glu Thr Val Ser Pro Glu Gln Asp Glu Ser  
 545 550 555 560  
 Pro Gly Leu Glu Leu Gly Arg Asp His Ser Phe Ile Ala Thr Ile Ala  
 565 570 575  
 Arg Ser Ala Ala Pro Ala Ile Tyr Leu Glu Arg Ile Ala Asn  
 580 585 590

<210> 2424

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2424

Met Ile Arg Ile Ile Asn Ala Phe Ser Leu Pro Thr Tyr Leu Ser Ser  
 1 5 10 15  
 His Asp Asn Leu Lys Ile Ser Leu Val Ala Phe Pro Leu Lys Pro Thr  
 20 25 30  
 Phe Pro Val Gly Leu Asn Ser Leu Phe Ser Leu Ile Trp Cys Phe Pro  
 35 40 45  
 Ser His Leu Phe Phe Lys Val Pro Phe Leu Gln Thr Leu Lys Ser Thr  
 50 55 60  
 Ser Leu Thr Lys Phe Leu Phe Ile Ile Lys His Phe Asp Ile Leu Ser  
 65 70 75 80  
 Leu Asn Phe Ala Phe Ala Glu Ser Leu Pro Phe Gly Val Leu Ser Met  
 85 90 95

Lys Tyr Ser Ala Asp Phe Tyr Leu Gly Phe Lys Trp Gly Ser Ile Lys  
                   100                  105                  110  
 Asn Thr Ser His Phe Cys Asn Asn Gly Ile Thr Val Ser Ser Cys Met  
                   115                  120                  125  
  
 Gln Ala Ile Lys Leu Phe Arg Val Trp Phe Tyr Thr Glu Asn Leu Ile  
                   130                  135                  140

<210> 2425

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2425

Met Lys Val Ser Glu Thr Tyr Thr Asp Thr Asn Ser Thr Ala Gly Gln  
   1                  5                  10                  15  
 His Ala Gly Phe Ser Val Gln Arg Arg Tyr Ile Asp Gln Gln Ala Val  
                   20                  25                  30  
 Arg Cys Gln Ile Arg Leu Leu Arg Glu Glu Thr Pro Leu Gln Gly Val  
                   35                  40                  45  
 Trp Lys Glu His Val Trp Lys Gly Ala Gly His Met Glu Pro Arg Asn  
                   50                  55                  60  
 Asn Cys Ser Pro Ser Val His Thr Ala Gln Arg Glu Arg Gly Glu Glu  
                   65                  70                  75                  80  
 Phe Gln Ala Arg Ala Thr Glu Ala Leu Glu Ala Val Leu Arg Arg Glu  
                   85                  90                  95  
 Thr Ser Ser Arg  
                   100

<210> 2426

<211> 141

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2426

Met Ala Glu Arg Gly Gln His Glu Ala Gln Ala Met Ala Ser Glu Gly  
 1 5 10 15  
 Glu Ser Leu Lys Pro Trp Gln Leu Pro Cys Asp Val Glu His Val Gly  
 20 25 30  
 Ala Gln Lys Ser Arg Asn Gly Val Trp Glu Pro Leu Ser Arg Phe Gln  
 35 40 45  
 Lys Met Tyr Gly Asn Ala Trp Met Pro Arg Gln Lys Phe Ala Ala Gly  
 50 55 60  
 Ala Gly Leu Ser Trp Arg Thr Ser Ala Arg Ala Val Gln Lys Gly Asn  
 65 70 75 80  
 Val Gly Leu Glu Pro Pro His Arg Val Pro Thr Gly Thr Pro Pro Ser  
 85 90 95  
 Gly Ala Val Arg Arg Gly Pro Leu Ser Ser Arg Pro Gln Asn Gly Arg  
 100 105 110  
 Ser Thr Tyr Ser Leu Tyr Gln Val Pro Gly Lys Ala Ala Asp Thr Gln  
 115 120 125  
 His Gln Pro Met Lys Ala Ala Arg Met Glu Ala Val Pro  
 130 135 140

&lt;210&gt; 2427

&lt;211&gt; 292

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2427

Met Thr Glu Leu Leu Asn Arg Val Asp Lys Lys Ala Ala Pro Gln Thr  
 1 5 10 15  
 Glu Ser Gly Ser Ser Asn Ala Ser Cys Arg Asn Val Leu Lys Gly Ser  
 20 25 30  
 Ser Gln Gly Ser Cys Leu Ile Gly Ser Ser Ile Ser Thr Gln Gly Asn  
 35 40 45  
 His Lys Lys Asn Met Lys Ile Lys Ala Asp Met Glu Val Pro Lys Asp  
 50 55 60  
 Ser Leu Val Lys Glu Ala Asn Glu Asn Leu Gln Glu Asp Glu Asp Asp

65		70		75		80
Ala Val	Ala Asp Ser Val	Phe Gln Ser His	Ile Ile	Glu Ser	Asn Cys	
	85		90		95	
Gln Met	Arg Thr Leu Asp Ser	Gly Ile Gly Thr	Phe Pro	Leu Pro	Asp	
	100		105		110	
Ser Gly	Asn Arg Ser Thr	Gly Arg Tyr Leu	Cys Gln Pro	Asp Ser	Pro	
	115		120		125	
Glu Asp	Ala Glu Pro Leu	Leu Pro Leu Gln	Ser Ala Leu	Ser Ala	Val	
	130		135		140	
Ser Ser	Met Arg Ala Gln	Thr Leu Glu Arg	Glu Val Pro	Ser Ser	Thr	
145		150		155		160
Asp Gly	Gln Arg Pro Ala	Asp Ser Ala Ile	Val His Ser	Thr Ser	Asp	
	165		170		175	
Pro Ile	Met Thr Ala Arg	Gly Met Arg Pro	Leu Gln Ser	Arg Leu	Pro	
	180		185		190	
Lys Pro	Ala Ser Ser Gly	Lys Val Ser Ser	Gln Lys Gln	Asn Glu	Ala	
	195		200		205	
Glu Pro	Arg Pro Gln Thr	Cys Ser Ser Phe	Gly Tyr Ala	Glu Asp	Pro	
	210		215		220	
Met Ala	Ser Gln Pro Leu	Pro Asp Trp Gly	Ser Glu Val	Ala Ala	Thr	
225		230		235		240
Gly Thr	Gln Asp Lys Ala	Pro Arg Met Cys	Thr Tyr Ser	Ala Ser	Gly	
	245		250		255	
Gly Ser	Asn Ser Asp Ser	Asp Leu Asp Tyr	Gly Asp Asn	Gly Phe	Gly	
	260		265		270	
Ala Gly	Arg Gly Gln Leu	Val Lys Ala Leu	Lys Ser Ala	Ala Pro	Glu	
	275		280		285	
Ile Glu	Thr Thr					
	290					

&lt;210&gt; 2428

&lt;211&gt; 599

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 2428

Met Asp Gly Thr Asp Cys Asp Leu Gly Lys Trp Cys Lys Ala Gly Glu  
 1 5 10 15  
 Cys Thr Ser Arg Thr Ser Ala Pro Glu His Leu Ala Gly Glu Trp Ser  
 20 25 30  
 Leu Trp Ser Pro Cys Ser Arg Thr Cys Ser Ala Gly Ile Ser Ser Arg  
 35 40 45  
 Glu Arg Lys Cys Pro Gly Leu Asp Ser Glu Ala Arg Asp Cys Asn Gly  
 50 55 60  
 Pro Arg Lys Gln Tyr Arg Ile Cys Glu Asn Pro Pro Cys Pro Ala Gly  
 65 70 75 80  
 Leu Pro Gly Phe Arg Asp Trp Gln Cys Gln Ala Tyr Ser Val Arg Thr  
 85 90 95  
 Ser Ser Pro Lys His Ile Leu Gln Trp Gln Ala Val Leu Asp Glu Glu  
 100 105 110  
 Lys Pro Cys Ala Leu Phe Cys Ser Pro Val Gly Lys Glu Gln Pro Ile  
 115 120 125  
 Leu Leu Ser Glu Lys Val Met Asp Gly Thr Ser Cys Gly Tyr Gln Gly  
 130 135 140  
 Leu Asp Ile Cys Ala Asn Gly Arg Cys Gln Lys Val Gly Cys Asp Gly  
 145 150 155 160  
 Leu Leu Gly Ser Leu Ala Arg Glu Asp His Cys Gly Val Cys Asn Gly  
 165 170 175  
 Asn Gly Lys Ser Cys Lys Ile Ile Lys Gly Asp Phe Asn His Thr Arg  
 180 185 190  
 Gly Ala Gly Tyr Val Glu Val Leu Val Ile Pro Ala Gly Ala Arg Arg  
 195 200 205  
 Ile Lys Val Val Glu Glu Lys Pro Ala His Ser Tyr Leu Ala Leu Arg  
 210 215 220  
 Asp Ala Gly Lys Gln Ser Ile Asn Ser Asp Trp Lys Ile Glu His Ser  
 225 230 235 240  
 Gly Ala Phe Asn Leu Ala Gly Thr Thr Val His Tyr Val Arg Arg Gly  
 245 250 255  
 Leu Trp Glu Lys Ile Ser Ala Lys Gly Pro Thr Thr Ala Pro Leu His  
 260 265 270  
 Leu Leu Val Leu Leu Phe Gln Asp Gln Asn Tyr Gly Leu His Tyr Glu

275	280	285
Tyr Thr Ile Pro Ser Asp	Pro Leu Pro Glu Asn Gln Ser Ser Lys Ala	
290	295	300
Pro Glu Pro Leu Phe Met Trp Thr His Thr Ser Trp Glu Asp Cys Asp		
305	310	315
Ala Thr Cys Gly Gly Gly Glu Arg Lys Thr Thr Val Ser Cys Thr Lys		
325	330	335
Ile Met Ser Lys Asn Ile Ser Ile Val Asp Asn Glu Lys Cys Lys Tyr		
340	345	350
Leu Thr Lys Pro Glu Pro Gln Ile Arg Lys Cys Asn Glu Gln Pro Cys		
355	360	365
Gln Thr Arg Trp Met Met Thr Glu Trp Thr Pro Cys Ser Arg Thr Cys		
370	375	380
Gly Lys Gly Met Gln Ser Arg Gln Val Ala Cys Thr Gln Gln Leu Ser		
385	390	395
Asn Gly Thr Leu Ile Arg Ala Arg Glu Arg Asp Cys Ile Gly Pro Lys		
405	410	415
Pro Ala Ser Ala Gln Arg Cys Glu Gly Gln Asp Cys Met Thr Val Trp		
420	425	430
Glu Ala Gly Val Trp Ser Glu Cys Ser Val Lys Cys Gly Lys Gly Ile		
435	440	445
Arg His Arg Thr Val Arg Cys Thr Asn Pro Arg Arg Lys Cys Val Leu		
450	455	460
Ser Thr Arg Pro Arg Glu Ala Glu Asp Cys Glu Asp Tyr Ser Lys Cys		
465	470	475
Tyr Val Trp Arg Met Gly Asp Trp Ser Lys Cys Ser Ile Thr Cys Gly		
485	490	495
Lys Gly Met Gln Ser Arg Val Ile Gln Cys Met His Lys Ile Thr Gly		
500	505	510
Arg His Gly Asn Gly Cys Phe Ser Ser Glu Lys Pro Ala Ala Tyr Arg		
515	520	525
Pro Cys His Leu Gln Pro Cys Asn Glu Lys Ile Asn Val Asn Thr Ile		
530	535	540
Thr Ser Pro Arg Leu Ala Ala Leu Thr Phe Lys Cys Leu Gly Asp Gln		
545	550	555
Trp Pro Val Tyr Cys Arg Val Ile Arg Glu Lys Asn Leu Cys Gln Asp		

565                      570                      575  
 Met Arg Trp Tyr Gln Arg Cys Cys Glu Thr Cys Arg Asp Phe Tyr Ala  
 580                      585                      590  
 Gln Lys Leu Gln Gln Lys Ser  
 595

<210> 2429

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2429

Met Gln Arg Arg Thr Thr Met Arg Tyr His Leu Met Pro Val Arg Met  
 1                      5                      10                      15  
 Val Ile Ile Lys Lys Ser Lys Asn Asn Arg Cys Trp Arg Gly Cys Gly  
 20                      25                      30  
 Glu Val Gly Thr Leu Leu His Cys Trp Trp Glu Cys Lys Leu Val Gln  
 35                      40                      45  
 Pro Leu Trp Lys Cys Val Trp Leu Phe Leu Lys Asp Leu Glu Leu Glu  
 50                      55                      60  
 Ile Leu Phe Val Pro Ala Ile Pro Leu Leu Gly Ile Tyr Pro Lys Glu  
 65                      70                      75                      80  
 Tyr Lys Pro Phe Tyr Tyr Lys Asp Thr Cys Thr Phe Leu Phe Ile Ala  
 85                      90                      95  
 Ala Leu Phe Thr Ile Ala Lys Thr Gln  
 100                      105

<210> 2430

<211> 166

<212> PRT

<213> Homo sapiens

<400> 2430

Met Lys Ser Lys Glu Arg His Pro Cys Ser Pro Ser Asp His Arg Arg

1	5	10	15
Ser Arg Ser Pro Ser Gln Arg Arg Thr Arg Ser Arg Ser Ser Ser Trp			
20	25	30	
Gly Arg Asn Arg Arg Arg Ser Asp Ser Leu Lys Glu Ser Arg His Arg			
35	40	45	
Arg Phe Ser Tyr Ser Gln Ser Lys Ser Arg Ser Lys Ser Leu Pro Arg			
50	55	60	
Arg Ser Thr Ser Ala Arg Gln Ser Arg Thr Pro Arg Arg Asn Phe Gly			
65	70	75	80
Ser Arg Gly Arg Ser Arg Ser Lys Ser Leu Gln Lys Arg Ser Lys Ser			
85	90	95	
Ile Gly Lys Ser Gln Ser Ser Ser Pro Gln Lys Gln Thr Ser Ser Gly			
100	105	110	
Thr Lys Ser Arg Ser His Gly Arg His Ser Asp Ser Ile Ala Arg Ser			
115	120	125	
Pro Cys Lys Ser Pro Lys Gly Tyr Thr Asn Ser Glu Thr Lys Val Gln			
130	135	140	
Thr Ala Lys His Ser His Phe Arg Ser His Ser Arg Ser Arg Ser Tyr			
145	150	155	160
Arg His Lys Asn Ser Trp			
165			

&lt;210&gt; 2431

&lt;211&gt; 171

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2431

Met Arg Glu Glu Met Ser Leu Gly Cys Gln Glu Ala Phe Glu Ile Phe			
1	5	10	15
Lys Arg Asp His Ala Asp Ser Val Thr Ile Asp Asp Asn Lys Gln Ile			
20	25	30	
Leu Lys Gln Arg Phe Ser Glu Ala Lys Ala Leu Gly Glu Ser Ile Asn			
35	40	45	

Glu Ala Arg Ser Lys Ile Gly His Leu Lys Glu Glu Ile Thr Gln Arg  
 50 55 60  
 His Ile Gln Gln Val Ala Leu Gly Ile Ser Glu Asn Met Ala Val Pro  
 65 70 75 80  
 Leu Met Pro Asp Gln Gln Glu Glu Lys Leu Arg Ser Gln Leu Glu Glu  
 85 90 95  
 Glu Lys Arg Arg Tyr Lys Thr Met Phe Thr Arg Leu Lys Ala Leu Lys  
 100 105 110  
 Val Glu Ile Glu His Leu Gln Leu Leu Met Asp Lys Ala Lys Val Lys  
 115 120 125  
 Leu Gln Lys Glu Phe Glu Val Trp Trp Ala Glu Glu Ala Thr Asn Leu  
 130 135 140  
 Gln Val Asn Ser Pro Ala Val Asn Ser Leu Asp His Thr Lys Ser Lys  
 145 150 155 160  
 Ile Lys Ala Leu Ala Asp Ser Met Ser Val Met  
 165 170

<210> 2432

<211> 112

<212> PRT

<213> Homo sapiens

<400> 2432

Met Pro Thr Ser Ser Phe Tyr Ala Cys Leu Thr Leu Phe Leu His Thr  
 1 5 10 15  
 Gly Pro Arg Cys His Leu Gln Glu Ala Phe Ser His Pro Ile Leu Val  
 20 25 30  
 Arg Ser Gly Cys His Asn Lys Ile Ser Ser Ile Gly Tyr Leu Arg Asn  
 35 40 45  
 Asn Arg Asn Val Phe Leu Thr Val Leu Lys Thr Gly Gln Ser Trp Val  
 50 55 60  
 Arg Val Leu Val Glu Ser Val Ser Gly Glu Gly Leu Arg Cys Leu Ser  
 65 70 75 80  
 Thr Val Ser Pro Arg Gly Gly Gly Val Arg Gly Leu Pro Gln Gly Ser  
 85 90 95

Phe Ile Arg Thr Arg Ile Pro Phe Met Arg Ala Asn His Pro Met Ala  
 100 105 110

<210> 2433

<211> 341

<212> PRT

<213> Homo sapiens

<400> 2433

Met Asn Cys Asn Phe Gln Lys His Ala Pro Leu Glu Glu Phe Tyr Ser  
 1 5 10 15  
 Phe Gly Glu Ser Met Cys Glu Tyr Phe Gly His Arg Gly Ser Lys Gln  
 20 25 30  
 Leu His Arg Gly Lys Pro Val Arg Leu Gly Tyr Lys Ile Trp Cys Gly  
 35 40 45  
 Thr Thr Ser Arg Gly Tyr Leu Val Trp Phe Glu Pro Ser Gln Gly Thr  
 50 55 60  
 Leu Phe Thr Lys Pro Asp Arg Ser Leu Asp Leu Gly Gly Ser Met Val  
 65 70 75 80  
 Ile Lys Phe Val Asp Ala Leu Gln Glu Arg Gly Phe Leu Pro Tyr His  
 85 90 95  
 Ile Phe Phe Asp Lys Val Phe Thr Ser Val Lys Leu Met Ser Ile Leu  
 100 105 110  
 Arg Lys Lys Gly Val Lys Ala Thr Gly Thr Val Arg Glu Tyr Arg Thr  
 115 120 125  
 Glu Arg Cys Pro Leu Lys Asp Pro Lys Glu Leu Lys Lys Met Lys Arg  
 130 135 140  
 Gly Ser Phe Asp Tyr Lys Val Asp Glu Ser Glu Glu Ile Ile Val Cys  
 145 150 155 160  
 Arg Trp His Asp Ser Ser Val Val Asn Ile Cys Ser Asn Ala Val Gly  
 165 170 175  
 Ile Glu Pro Val Arg Leu Thr Ser Arg His Ser Gly Ala Ala Lys Thr  
 180 185 190  
 Arg Thr Gln Val His Gln Pro Ser Leu Val Lys Leu Tyr Gln Glu Lys  
 195 200 205

Val Gly Gly Val Gly Arg Met Asp Gln Asn Ile Ala Lys Tyr Lys Val  
 210 215 220  
 Lys Ile Arg Gly Met Lys Trp Tyr Ser Ser Phe Ile Gly Tyr Val Ile  
 225 230 235 240  
 Asp Ala Ala Leu Asn Asn Ala Trp Gln Leu His Arg Ile Cys Cys Gln  
 245 250 255  
 Asp Ala Gln Val Asp Leu Leu Ala Phe Arg Arg Tyr Ile Ala Cys Val  
 260 265 270  
 Tyr Leu Glu Ser Asn Ala Asp Thr Thr Ser Gln Gly Arg Arg Ser Arg  
 275 280 285  
 Arg Leu Glu Thr Glu Ser Arg Phe Asp Met Ile Gly His Trp Ile Ile  
 290 295 300  
 His Gln Asp Lys Arg Thr Arg Cys Ala Leu Cys His Ser Gln Thr Asn  
 305 310 315 320  
 Thr Arg Cys Glu Lys Cys Gln Lys Gly Val His Ala Lys Cys Phe Arg  
 325 330 335  
 Glu Tyr His Ile Arg  
 340

<210> 2434

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2434

Met Val Ile Lys Val Leu, Gln Met Ser Thr Cys Arg Phe Tyr Lys Lys  
 1 5 10 15  
 Ser Val Leu Lys Leu Leu Tyr Gln Arg Lys Val Gln His Arg Glu Leu  
 20 25 30  
 Asn Ala Gln Ile Thr Arg Arg Leu Leu Gly Met Leu Val Ser Asp Phe  
 35 40 45  
 Tyr Val Lys Ile Leu Pro Phe Ser Ser Arg Ala Ser Lys Arg Ser Lys  
 50 55 60  
 Tyr Pro Leu Ser Asp Ser Ile Lys Arg Val Ile Lys Tyr Phe Ser Lys  
 65 70 75 80

Lys Arg Gly Ser Thr Gln Trp Val Glu Cys Arg Asn His Gly Glu Val  
                             85                            90                            95  
 Ser Gln Ser Ala Ser Phe  
                             100

<210> 2435

<211> 159

<212> PRT

<213> Homo sapiens

<400> 2435

Met Ser Pro Ser Trp Glu Gln Pro Pro Ser Ser Gly Pro Val Ala Ile  
   1                            5                            10                            15  
 Gln Leu Gln Ser Glu His Ser Thr Ser Cys Thr Gly Ile Ser Ala Gly  
                             20                            25                            30  
 Glu Lys Asp Ile Arg Val Thr Ile Ser Thr Thr Gly Arg Glu Leu Gln  
                             35                            40                            45  
 Gly Arg Arg Gln Pro Thr Leu Ser Leu Gln Pro Asn Cys Thr Ser Pro  
                             50                            55                            60  
 Leu Arg Cys Gly Ala Pro Ala Ser Lys Ala Arg Glu Leu Ser Phe Pro  
   65                            70                            75                            80  
 Lys Ala Asp Leu Asn Met Ser Leu Ser Pro Leu Lys Glu Asn Asn Asn  
                             85                            90                            95  
 Asp Thr Phe Tyr Leu Phe Ile Leu Arg Glu Gly Leu Thr Leu Leu Pro  
                             100                            105                            110  
 Arg Leu Glu Cys Ser Gly Met Ile Thr Ala His Tyr Ser Leu Gly Leu  
                             115                            120                            125  
 Pro Gly Ser Ser Gly Pro Pro Thr Ser Ala Ser Gln Gly Ser Gly Thr  
                             130                            135                            140  
 Thr Gly Met Cys His His Thr Trp Leu Thr Leu Asn Lys Phe Leu  
   145                            150                            155

<210> 2436

<211> 131



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2436

Met Ser Pro Val Ser Arg Val Glu Ile Asp Val Leu Gln Asn Ser Leu  
 1 5 10 15  
 Leu Asp Asp Leu Ala Pro Gly Ser Gly Lys Ser Glu Pro Arg Pro Arg  
 20 25 30  
 Phe Thr Val Leu Pro Gln Ile Leu Gly Met Leu Gln Glu Ala Glu Leu  
 35 40 45  
 Gln Gly Pro Ser Gly Phe Arg Pro Gln Thr Pro Gly Ser Leu Gln Ser  
 50 55 60  
 His His Glu Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Cys Asp  
 65 70 75 80  
 Leu Gly Ser Leu Gln Arg Leu Pro Pro Arg Phe Lys Arg Phe Ser His  
 85 90 95  
 Leu Ser Leu Leu Asn Arg Trp Asp Tyr Arg His Pro Pro Pro Arg Pro  
 100 105 110  
 Asp Asn Ile Cys Ile Phe Ser Arg Asp Gly Val Ser Thr Tyr Ser Pro  
 115 120 125  
 Gly Trp Pro  
 130

&lt;210&gt; 2437

&lt;211&gt; 673

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2437

Met Thr Ala Pro Pro Ile Ser His Glu Tyr Tyr Asp Pro Ala Glu Phe  
 1 5 10 15  
 Met Glu Gly Gly Pro Gln Glu Ala Asp Arg Leu Asp Glu Leu Glu Tyr  
 20 25 30  
 Glu Glu Val Glu Leu Tyr Lys Ser Ser His Arg Asp Lys Leu Gly Leu

35	40	45			
Met	Val	Cys	Tyr	Arg	Thr
				Asp	Asp
				Glu	Glu
				Asp	Leu
				Gly	Ile
				Tyr	Val
50	55	60			
Gly	Glu	Val	Asn	Pro	Asn
				Ser	Ile
				Ala	Ala
				Lys	Asp
				Gly	Arg
				Ile	Arg
65	70	75	80		
Glu	Gly	Asp	Arg	Ile	Ile
				Gln	Ile
				Asn	Gly
				Val	Asp
				Val	Gln
				Asn	Arg
85	90	95			
Glu	Glu	Ala	Val	Ala	Ile
				Leu	Ser
				Gln	Glu
				Glu	Asn
				Thr	Asn
				Ile	Ser
100	105	110			
Leu	Leu	Val	Ala	Arg	Pro
				Glu	Ser
				Gln	Leu
				Ala	Lys
				Arg	Trp
				Lys	Asp
115	120	125			
Ser	Asp	Arg	Asp	Asp	Phe
				Leu	Asp
				Asp	Phe
				Gly	Ser
				Glu	Asn
				Glu	Gly
130	135	140			
Glu	Leu	Arg	Ala	Arg	Lys
				Leu	Lys
				Ser	Pro
				Pro	Ala
				Gln	Gln
				Pro	Gly
145	150	155	160		
Asn	Glu	Glu	Glu	Lys	Gly
				Ala	Pro
				Asp	Ala
				Gly	Pro
				Gly	Leu
				Ser	Asn
165	170	175			
Ser	Gln	Glu	Leu	Asp	Ser
				Gly	Val
				Gly	Arg
				Thr	Asp
				Glu	Ser
				Thr	Arg
180	185	190			
Asn	Glu	Glu	Ser	Ser	Glu
				His	Asp
				Leu	Leu
				Gly	Asp
				Glu	Pro
				Pro	Ser
195	200	205			
Ser	Thr	Asn	Thr	Pro	Gly
				Ser	Leu
				Arg	Lys
				Phe	Gly
				Leu	Gln
				Gly	Asp
210	215	220			
Ala	Leu	Gln	Ser	Arg	Asp
				Phe	His
				Phe	Ser
				Met	Asp
				Ser	Leu
				Leu	Ala
225	230	235	240		
Glu	Gly	Ala	Gly	Leu	Gly
				Gly	Gly
				Gly	Asp
				Val	Pro
				Gly	Leu
				Thr	Asp
				Glu	
245	250	255			
Glu	Tyr	Glu	Arg	Tyr	Arg
				Glu	Leu
				Leu	Glu
				Ile	Lys
				Cys	His
				Leu	Glu
260	265	270			
Asn	Gly	Asn	Gln	Leu	Gly
				Leu	Leu
				Phe	Pro
				Arg	Ala
				Ser	Gly
				Gly	Gly
				Asn	
275	280	285			
Ser	Ala	Leu	Asp	Val	Asn
				Arg	Asn
				Glu	Ser
				Leu	Gly
				His	Glu
				Met	Ala
290	295	300			
Met	Leu	Glu	Glu	Glu	Leu
				Arg	His
				Leu	Glu
				Phe	Lys
				Cys	Arg
				Asn	Ile
305	310	315	320		
Leu	Arg	Ala	Gln	Lys	Met
				Gln	Gln
				Leu	Arg
				Glu	Arg
				Cys	Met
				Lys	Ala

	325		330		335										
Trp	Leu	Leu	Glu	Glu	Glu	Ser	Leu	Tyr	Asp	Leu	Ala	Ala	Ser	Glu	Pro
	340		345		350										
Lys	Lys	His	Glu	Leu	Ser	Asp	Ile	Ser	Glu	Leu	Pro	Glu	Lys	Ser	Asp
	355		360		365										
Lys	Asp	Ser	Thr	Ser	Ala	Tyr	Asn	Thr	Gly	Glu	Ser	Cys	Arg	Ser	Thr
	370		375		380										
Pro	Leu	Leu	Val	Glu	Pro	Leu	Pro	Glu	Ser	Pro	Leu	Arg	Arg	Ala	Met
385			390		395									400	
Ala	Gly	Asn	Ser	Asn	Leu	Asn	Arg	Thr	Pro	Pro	Gly	Pro	Ala	Val	Ala
	405		410		415										
Thr	Pro	Ala	Lys	Ala	Ala	Pro	Pro	Pro	Gly	Ser	Pro	Ala	Lys	Phe	Arg
	420		425		430										
Ser	Leu	Ser	Arg	Asp	Pro	Glu	Ala	Gly	Arg	Arg	Gln	His	Ala	Glu	Glu
	435		440		445										
Arg	Gly	Arg	Arg	Asn	Pro	Lys	Thr	Gly	Leu	Thr	Leu	Glu	Arg	Val	Gly
	450		455		460										
Pro	Glu	Ser	Ser	Pro	Tyr	Leu	Ser	Arg	Arg	His	Arg	Gly	Gln	Gly	Gln
465			470		475									480	
Glu	Gly	Glu	His	Tyr	His	Ser	Cys	Val	Gln	Leu	Ala	Pro	Thr	Arg	Gly
	485		490		495										
Leu	Glu	Glu	Leu	Gly	His	Gly	Pro	Leu	Ser	Leu	Ala	Gly	Gly	Pro	Arg
	500		505		510										
Val	Gly	Gly	Val	Ala	Ala	Ala	Ala	Thr	Glu	Ala	Pro	Arg	Met	Glu	Trp
	515		520		525										
Lys	Val	Lys	Val	Arg	Ser	Asp	Gly	Thr	Arg	Tyr	Val	Ala	Lys	Arg	Pro
	530		535		540										
Val	Arg	Asp	Arg	Leu	Leu	Lys	Ala	Arg	Ala	Leu	Lys	Ile	Arg	Glu	Glu
545			550		555									560	
Arg	Ser	Gly	Met	Thr	Thr	Asp	Asp	Asp	Ala	Val	Ser	Glu	Met	Lys	Met
	565		570		575										
Gly	Arg	Tyr	Trp	Ser	Lys	Glu	Glu	Arg	Lys	Gln	His	Leu	Ile	Arg	Ala
	580		585		590										
Arg	Glu	Gln	Arg	Lys	Arg	Arg	Glu	Phe	Met	Met	Gln	Ser	Arg	Leu	Glu
	595		600		605										
Cys	Leu	Arg	Glu	Gln	Gln	Asn	Gly	Asp	Ser	Lys	Pro	Glu	Leu	Asn	Ile

610	615	620	
Ile Ala Leu Ser His Arg Lys Thr Met Lys Lys Arg Asn Lys Lys Ile			
625	630	635	640
Leu Asp Asn Trp Ile Thr Ile Gln Glu Met Leu Ala His Gly Ala Arg			
	645	650	655
Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro Leu Leu Ser Val Thr Thr			
	660	665	670
Val			

&lt;210&gt; 2438

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2438

Met Ala Phe Ser Ser Thr His Pro His Thr Ala Cys Arg Lys Gly Pro			
1	5	10	15
Arg Glu Lys Ser Gln Gly Arg Lys Ala Glu Glu Asp Gly Pro Gly Phe			
	20	25	30
Gly Leu Ser Val Leu Gly Ala Leu Leu Pro Gln Glu Gly Gln Arg Gly			
	35	40	45
Pro Trp Cys Cys Cys His His Tyr His Pro Gly His Glu Ile Ala Gly			
	50	55	60
Leu Gly Gln Thr Gln Arg Arg Thr Gly Arg Ala Arg Val Ser Gln Glu			
65	70	75	80
His Ser Ser Ser Ala Leu Gly Cys Trp Gln Val Ala Leu Met Ala Phe			
	85	90	95
Gln Arg Gln Ser Leu His Pro Gly Gln Ser Ser Leu Phe Ser Gly Ala			
	100	105	110
Lys His Ile Gly Ser Phe Val Gln Phe Ile Asn Ser Thr Ser Leu Phe			
	115	120	125
Leu Arg Glu Thr Trp Leu Trp Pro Val Leu Leu Pro His Pro			
130	135	140	

&lt;210&gt; 2439

&lt;211&gt; 120

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2439

```

Met Arg Ser Gly Gln Asp Pro Gln Thr Pro Ser Gly Asn Thr Lys His
  1             5             10            15
Pro Glu Ser Arg Leu Gln Glu Pro Cys Gly Val Arg Leu Cys Gln Arg
      20             25            30
Tyr Thr Ala Gly His Lys Cys Pro Leu Ser Val Pro Pro Phe Arg Ala
      35             40            45
Val Pro Cys Leu Ser Gln Gly Pro Val Thr Ser Leu Gln Gln Ser Pro
      50             55            60
Ile Pro Ala Thr Pro Gly Ser Val Arg Pro Thr Leu Phe Pro Arg Glu
      65             70            75            80
Arg Arg Arg Glu Lys Thr Gly Trp Ala Arg Trp Leu Thr Pro Val Ile
      85             90            95
Pro Ala Leu Trp Glu Val Glu Val Gly Gly Ser Pro Glu Val Arg Ser
      100            105            110
Leu Arg Pro Ala Trp Pro Thr Trp
      115            120

```

&lt;210&gt; 2440

&lt;211&gt; 275

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2440

```

Met Ser Thr Ile Gly Ser Phe Glu Gly Phe Gln Ala Val Ser Leu Lys
  1             5             10            15
Gln Glu Gly Asp Asp Gln Pro Ser Glu Thr Asp His Leu Ser Met Glu
      20             25            30
Glu Glu Asp Pro Met Pro Arg Gln Ile Ser Arg Gln Ser Ser Val Thr

```

35	40	45
Glu Ser Thr Leu Tyr Pro Asn Pro Tyr His Gln Pro Tyr Ile Ser Arg		
50	55	60
Lys Tyr Phe Ala Thr Arg Pro Gly Ala Ile Glu Thr Ala Met Glu Asp		
65	70	75
Leu Lys Gly His Val Ala Glu Thr Ser Gly Glu Thr Ile Gln Gly Phe		
85	90	95
Trp Leu Leu Thr Lys Ile Asp His Trp Asn Asn Glu Lys Glu Arg Ile		
100	105	110
Leu Leu Val Thr Asp Lys Thr Leu Leu Ile Cys Lys Tyr Asp Phe Ile		
115	120	125
Met Leu Ser Cys Val Gln Leu Gln Arg Ile Pro Leu Ser Ala Val Tyr		
130	135	140
Arg Ile Cys Leu Gly Lys Phe Thr Phe Pro Gly Met Ser Leu Asp Lys		
145	150	155
Arg Gln Gly Glu Gly Leu Arg Ile Tyr Trp Gly Ser Pro Glu Glu Gln		
165	170	175
Ser Leu Leu Ser Arg Trp Asn Pro Trp Ser Thr Glu Val Pro Tyr Ala		
180	185	190
Thr Phe Thr Glu His Pro Met Lys Tyr Thr Ser Glu Lys Phe Leu Glu		
195	200	205
Ile Cys Lys Leu Ser Gly Phe Met Ser Lys Leu Val Pro Ala Ile Gln		
210	215	220
Asn Ala His Lys Asn Ser Thr Gly Ser Gly Arg Gly Lys Lys Leu Met		
225	230	235
Val Leu Thr Glu Pro Ile Leu Ile Glu Thr Tyr Thr Gly Leu Met Ser		
245	250	255
Phe Ile Gly Asn Arg Asn Lys Leu Gly Tyr Ser Leu Ala Arg Gly Ser		
260	265	270
Ile Gly Phe		
275		

&lt;210&gt; 2441

&lt;211&gt; 248

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2441

Met Ser Gln Asp Pro Leu Phe Leu Asp Leu Met Gly Thr Cys His Ser  
 1 5 10 15  
 Asp Ser Thr Lys Pro Ala Ile Leu Lys Pro Gln His Leu Thr Trp Tyr  
 20 25 30  
 Arg Thr His Leu Ala Arg Gly Leu Thr Leu Tyr Pro Pro Asp Ile Leu  
 35 40 45  
 Asp Ala Met Leu Lys Glu Lys Lys Leu Ala Gln Asp Gln Asn Gly Ala  
 50 55 60  
 Leu Met Ile Pro Ile Gln Asp Leu Glu Asp Met Pro Ala Pro Gln Tyr  
 65 70 75 80  
 Pro Tyr Ile Pro Pro Met Thr Glu Phe Phe Phe Asp Gly Thr Ser Asp  
 85 90 95  
 Ile Thr Ile Phe Pro Pro Pro Ile Ser Val Glu Pro Val Glu Val Asp  
 100 105 110  
 Phe Gly Ala Cys Pro Gly Pro Glu Ala Pro Asn Pro Val Pro Leu Cys  
 115 120 125  
 Leu Met Asn His Thr Lys Gly Lys Ile Met Val Val Trp Thr Arg Arg  
 130 135 140  
 Ser Asp Cys Pro Phe Trp Val Thr Pro Glu Ser Cys Asp Val Pro Pro  
 145 150 155 160  
 Leu Lys Ser Met Ala Met Arg Leu His Phe Gln Pro Pro His Pro Asn  
 165 170 175  
 Cys Leu Tyr Thr Val Glu Leu Glu Ala Phe Ala Ile Tyr Lys Val Cys  
 180 185 190  
 Ala Arg Asn Glu Arg Glu Glu Cys Gly Val Ser Ala Arg Ser Leu Ser  
 195 200 205  
 Gly Leu Val Gly Trp Gln Glu Val Thr Glu Gly Ser Phe Arg Leu His  
 210 215 220  
 Pro Leu Arg Ala Arg Leu Ser Leu Gly Trp Thr Val Thr Pro Met Ser  
 225 230 235 240  
 Leu Ser Pro Pro Lys Leu Leu Ala  
 245

&lt;210&gt; 2442

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2442

```

Met Ala Lys Trp Gly Cys Glu Pro Leu Ala Gln Arg Leu His Pro Arg
  1             5             10             15
Leu Glu Val Ile Leu His Val Pro Lys Gln Ala Met Pro Arg Ser Ala
             20             25             30
Lys Lys Ser Gly Gln Pro Gly His Glu Cys Thr Pro Arg Ser Pro Gly
             35             40             45
Asn Phe Ile Gln Asp Thr Thr Gln Pro Val Leu Gln Pro Ala Gly His
             50             55             60
Arg Leu Pro Gln Leu Ser Arg Ala Thr Thr Thr Leu Thr Glu Val Ser
             65             70             75             80
Gln Glu Ala Thr Leu Asp Thr Gly Arg Gln Gln Gly Met Glu Arg Gly
             85             90             95
Lys Lys Gly Gly Lys Thr Pro Ser Cys Gly Arg Val Ala Lys Asp Gly
             100            105            110

```

&lt;210&gt; 2443

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2443

```

Met Gly Val Glu Glu Phe Gly Val Asn Leu Tyr Ile Leu Gln Ile Ile
  1             5             10             15
Phe Gly Gly Val Asp Val Pro Ala Lys Phe Ile Thr Ile Leu Ser Leu
             20             25             30
Ser Tyr Leu Gly Arg His Thr Thr Gln Ala Ala Ala Leu Leu Leu Ala
             35             40             45
Gly Gly Ala Ile Leu Ala Leu Thr Phe Val Pro Leu Gly Glu Arg Leu

```



50                      55                      60  
 Gly Leu Pro Gln Asn Pro Leu Glu Glu Ala Ala Arg Leu Gly Ala Arg  
 65                      70                      75                      80  
 Asp Phe Thr Ala Gly Ser Ala Ser Lys Ser Leu Cys Tyr Leu Glu Gln  
                     85                      90                      95  
 Val Pro Ala Leu Ser Gly Ala Gln Gly Leu Ser Ser Arg Lys  
                     100                      105                      110

<210> 2444

<211> 237

<212> PRT

<213> Homo sapiens

<400> 2444

Met His Leu Thr Phe Asn Leu Arg Ser Trp Ala Cys Val Glu Leu Val  
 1                      5                      10                      15  
 Phe Gly Ala Tyr Lys Ser Glu Ser His Leu Trp Arg Ser Ser Arg Leu  
                     20                      25                      30  
 Val Lys Cys Gly Gln Thr Cys Phe Pro Pro Leu Gly Asn Gly Thr Glu  
                     35                      40                      45  
 Gln Pro Ile Cys Lys Thr Trp Phe Phe Ser Ile Arg Trp Val Ile Tyr  
                     50                      55                      60  
 Met Tyr Val Leu Val Leu Trp Phe Phe Leu Phe Phe Val Leu Phe Cys  
 65                      70                      75                      80  
 Phe Val Leu Arg Pro Ser Leu Ala Leu Ser Pro Gly Arg Glu Cys Ser  
                     85                      90                      95  
 Gly Ala Ile Pro Ala His Ser His Leu Cys Val Pro Gly Leu Gly Gly  
                     100                      105                      110  
 Ser Pro Ala Ser Ala Ser Pro Val Ala Gly Ile Thr Gly Asp Thr Gln  
                     115                      120                      125  
 Leu Ile Phe Val Phe Leu Val Glu Thr Gly Phe Cys His Val Gly Gln  
                     130                      135                      140  
 Ala Asp Leu Lys Leu Leu Thr Ser Ser Asn Pro Pro Thr Leu Ala Ser  
 145                      150                      155                      160  
 Gln Ser Ala Arg Ile Thr Asp Met Ser His His Ala Trp Pro Thr Met

165 170 175  
 Val Tyr Phe Tyr Lys Asn Phe Tyr Ser Glu Lys Met Gly Thr Phe Ser  
 180 185 190  
 Val Val Val Ile Thr Val Ser Cys Arg Leu Cys Val Arg Ser Ala Val  
 195 200 205  
 Glu Pro Val Val Ala Gln Ala Ala Leu Ser Gly Val Ser Glu Leu Phe  
 210 215 220  
 Pro Cys Thr Pro Val Ser Ala Gly Ala Gly Asn Ala Pro  
 225 230 235

<210> 2445

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2445

Met Arg Thr Ala Thr Ser Thr Gly Arg Arg Ile Ser Pro Asn Ser Gln  
 1 5 10 15  
 Val Ser Gly Leu Met Ala Thr Thr Ala Glu Ser Thr Pro Arg Pro Gly  
 20 25 30  
 Ala Ser Ser Cys Leu Ala Gly Val Thr Ala Pro Ser Thr Pro Thr Gly  
 35 40 45  
 Cys Gly Ser Ala Ala Arg Lys Ser Ile Thr Leu Tyr Thr Leu Asn Gly  
 50 55 60  
 Lys Lys Val Glu Val Ala Val Lys Gln Ile Ile Ala Gly Lys Ala Val  
 65 70 75 80  
 Glu Gln Gly Gly Ala Phe Ser Asn Pro Glu Thr Leu Asp Leu Tyr Arg  
 85 90 95  
 Asp Ile Pro Glu Leu Gln Gly Phe  
 100

<210> 2446

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2446

```

Met Val His Ile Asn Tyr Met Trp Gly Lys Asn Ala Ile Phe Trp Ala
 1             5             10             15
Arg Glu Thr Lys Gly Phe Ser Ile Tyr Glu Met Pro Gly Cys Gln Phe
          20             25             30
Ser Lys Pro Phe Pro Leu Asp Tyr Ser Gly Pro Arg Pro Phe Ser Asn
          35             40             45
Pro Thr Asn Gln Leu Leu Asp Pro Ala Pro Arg Ser Ser Gly Leu Gly
          50             55             60
Ala Gly Phe Arg Glu Glu Asn Leu Ile Lys Leu Phe Cys Leu Val Leu
 65             70             75             80
Val Thr Ala Val Ala Gly Glu Glu Phe Ile Ile Ile Lys Tyr Ile Phe
          85             90             95
Val Ile Thr Leu Trp Ile Leu Ile Ile His Leu Val
          100            105

```

<210> 2447

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2447

```

Met Cys Asn Lys Ala Gly Glu Thr Val Gln His Thr Arg Gly Gln Pro
 1             5             10             15
Phe Pro Leu Met Val Ala Glu Leu Thr Pro Gly Gly Gly Leu Thr Pro
          20             25             30
Ala Ala Arg Ala Arg Leu Asp Phe Arg Asn Met Ala Leu Leu Ala Trp
          35             40             45
Asp Ser Arg Ala Val Glu Ile Pro Val Gly Gly Arg Pro Gly Pro Ser
          50             55             60
His Gly Leu Gly Ser Arg Lys Pro Arg Phe His Thr Met Glu Arg Gln
 65             70             75             80
Pro Pro Ala Trp Ala Gly Arg Gly Leu Ser His Leu Leu Leu Ser Ser

```

	85	90	95
Ala Gly Leu Arg Arg Ala Glu Leu Pro Gly Ala Gly Val Ala Asn Glu			
100	105	110	
Asp Asn Lys Gln Met			
115			

&lt;210&gt; 2448

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2448

Met Pro Cys Ser Ser Arg Leu Leu Met Ala Tyr Ile Glu Asp Thr Gly			
1	5	10	15
Lys Met Val Val Asp Met Pro Ser Thr Met Thr Ser Lys Pro Gln Tyr			
20	25	30	
Phe His Pro Lys Ser Leu Thr Ser Asp Asn Ser His Ile Pro Leu Leu			
35	40	45	
Leu Pro Asn Trp Lys Ala Asp Cys Pro Val Asn Val Thr Met Ser Leu			
50	55	60	
Lys His Leu Ile Lys Asn Leu Leu Asn Trp Asp Ile Trp Val Gly Lys			
65	70	75	80
Ile Gly Ile Pro Leu Trp Lys Thr Pro Arg Leu Pro Trp Ser Tyr Thr			
85	90	95	
Asn Trp Leu Asn Ser Ser Gly Lys Asn Thr Leu Pro Arg Ile Pro Arg			
100	105	110	
Lys Thr Gly Asp Asn Gly Asp Val Gly Asp Val Gly Arg Gln Lys Gln			
115	120	125	
His Gln Glu Lys			
130			

&lt;210&gt; 2449

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2449

Met Tyr Leu Leu Arg Lys Ser Phe Ala Leu Val Ala Gln Ala Gly Val  
 1 5 10 15  
 Gln Trp His Asp Leu Ser Ser Pro Gln Pro Leu Pro Pro Arg Phe Lys  
 20 25 30  
 Gln Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Met  
 35 40 45  
 Pro Pro Arg Pro Ala Asn Phe Phe Val Phe Leu Leu Glu Thr Gly Phe  
 50 55 60  
 Leu His Val Gly Gln Ala Gly Leu Glu Ile Ser Thr Ser Gly Asp Pro  
 65 70 75 80  
 Pro Val Ser Val Ser Gln Ser Ala Gly Ile Thr Asp Val Ser His His  
 85 90 95  
 Ala Arg Pro Asn Ile Phe Cys His Ser Arg Ile Lys Pro Cys Thr Gln  
 100 105 110  
 Asp Ala Gly Arg Pro His Ser Gln Tyr Phe Met His Leu Ala Asp Thr  
 115 120 125  
 Asn Leu Leu Ser Val Cys Met Gly Leu Pro Ile Leu Gly Met  
 130 135 140

&lt;210&gt; 2450

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2450

Met Leu Phe Leu Leu Thr Pro Ser Ser His His Gln His Glu Cys Val  
 1 5 10 15  
 Arg Arg Ala Phe Glu Cys Gly Asp Cys His Ile Leu Leu Asp Asn Asn  
 20 25 30  
 Val Leu Gly Val Asp Cys His Gly Ala Gly Glu Arg Ala Val His Leu  
 35 40 45  
 Glu Asp His Phe Val His Ile Asp Thr Ile Ser Leu Leu Leu Glu Asp

50                      55                      60  
 Ala Leu Glu Tyr Ser Ala Leu Ile Ala Gly His Pro Lys Ser Asp Leu  
 65                      70                      75                      80  
 Pro Pro Gly Leu Ser Arg Cys Arg Pro Trp Glu His His Trp Pro Ile  
                          85                      90                      95  
 Ser Tyr Thr Gly  
                          100

<210> 2451

<211> 110

<212> PRT

<213> Homo sapiens

<400> 2451

Met Phe Val His Leu Cys Gly Asp Ile Cys Asp Ile Leu Leu Thr Cys  
 1                      5                      10                      15  
 Ile Glu Cys Val Met Ile Lys Ser Glu Tyr Leu Gly Tyr Pro Ser Leu  
                          20                      25                      30  
 Arg Val Ser Thr Ile Cys Met Cys Trp Glu His Phe Lys Phe Ser Pro  
                          35                      40                      45  
 Leu Ala Ile Leu Lys Tyr Thr Thr Tyr Cys Glu Leu Glu Ser Pro Tyr  
                          50                      55                      60  
 Ser Ala Ile Gln Tyr Tyr Asn Leu Phe Leu Leu Ser Asp Cys Met Leu  
 65                      70                      75                      80  
 Tyr Pro Leu Thr Asn Leu Ser Ser Ser Pro Cys Pro Leu Thr Tyr Pro  
                          85                      90                      95  
 Phe Gln Thr Leu Glu Ser Ile Ile Leu Leu Tyr Phe Tyr Phe  
                          100                      105                      110

<210> 2452

<211> 159

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2452

Met Gln Thr Ala Ala His His Arg Gly Val Pro His Gly Cys Leu Ser  
 1 5 10 15  
 Leu Leu Gly Trp Ser Lys Thr Ser His Ser Leu Glu Ala Pro Glu Asp  
 20 25 30  
 Asp Gly Gly Trp Ser Ser Ala Glu Glu Gln Ile Asn Ser Ser Asp Ala  
 35 40 45  
 Glu Glu Asp Gly Gly Leu Gly Pro Lys Lys Leu Val Pro Gly Lys Tyr  
 50 55 60  
 Thr Val Val Ala Asp His Glu Lys Gly Gly Pro Asp Ala Leu Arg Val  
 65 70 75 80  
 Arg Ser Gly Asp Val Val Glu Leu Val Gln Glu Gly Asp Glu Gly Leu  
 85 90 95  
 Trp Tyr Val Arg Asp Pro Thr Thr Gly Lys Glu Gly Trp Val Pro Ala  
 100 105 110  
 Ser Ser Leu Ser Val Arg Leu Gly Pro Ser Gly Ser Ala Gln Cys Leu  
 115 120 125  
 Ser Ser Ser Glu Ser Ser Pro Gly Ser Ala Val Leu Ser Asn Ser Ser  
 130 135 140  
 Ser Cys Ser Glu Gly Gly Gln Ala Pro Phe Ser Asp Leu Gln Gly  
 145 150 155

&lt;210&gt; 2453

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2453

Met Phe Thr Gln Thr Gly Ala Leu Glu Leu Arg Thr Arg Val Phe Ser  
 1 5 10 15  
 Ala Gly Arg Cys Ala Gln Ile Lys Pro Pro Arg Gly Asn Leu His Gly  
 20 25 30  
 Val Arg Cys Lys Val Thr Pro Phe Asn Ser Arg Tyr Gln Leu His Pro  
 35 40 45  
 Ser Val Arg Gly Lys Glu Val Arg Tyr Ser Gly Phe Asn Pro Arg Pro

50                      55                      60  
 Ala Gln Pro Gln His Ala Gln Ser Arg Gly Tyr Leu Gly Thr Gly Arg  
 65                      70                      75                      80  
 His Leu Thr Pro Ser Leu Thr Gln Pro Gly Phe Gly Ser Ser Gln Pro  
                          85                      90                      95  
 Ala Ser His Pro Leu Cys Gly Tyr  
                          100

<210> 2454

<211> 115

<212> PRT

<213> Homo sapiens

<400> 2454

Met Gly Trp Gly Lys Val Ala Arg Phe Arg Arg Arg Glu Arg Lys Asn  
 1                      5                      10                      15  
 Arg Cys Ser Ser Lys Glu Asp Cys Arg Cys Ser Pro Gly Pro Gly Ser  
                          20                      25                      30  
 Leu Pro Arg Arg Arg Ala Ala Arg Thr Pro Ala Ser Trp Gln Arg Ser  
                          35                      40                      45  
 Pro Arg Arg Asn His His Ser Glu Ala Phe Cys Pro Leu Ala Ala Ala  
                          50                      55                      60  
 Leu Pro Lys Thr Thr Gly Pro Pro Gly Gly Arg Asp Lys Pro Thr Arg  
 65                      70                      75                      80  
 Ser Leu Val Phe Arg Glu Arg Arg Val Pro Val Ser Leu Arg Glu Met  
                          85                      90                      95  
 Met Phe Lys Ile Pro Ala Arg Ala Pro Ser Pro Ala Val Lys His Gln  
                          100                      105                      110  
 Leu Ala Ala  
                          115

<210> 2455

<211> 128

<212> PRT



<213> Homo sapiens

<400> 2455

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Met Pro Ala Leu Gly Pro Leu Leu Arg Leu Glu Leu Met Arg Ala Ala
 1             5             10             15
Val Asp Thr Gly Gly Thr Gln Arg Pro Ala Ala Cys Glu Ser Ser Arg
          20             25             30
Gly Gln Ser Trp Glu Pro Gly Ala Gly Thr Arg Gln Val Ser Asp Cys
      35             40             45
Glu Met Pro Ala Ala Ser Pro Arg Lys Ala Ala Cys Ser Ile Trp Lys
      50             55             60
Leu Leu Cys Ser Pro Trp Pro Leu Cys Ser Ser Ser Pro Gly Leu Gly
      65             70             75             80
Ser Thr Arg Val Pro Leu Cys Leu Ser Arg Ala His Ser Pro Thr Ala
          85             90             95
Pro Ala Cys Thr Val Met Thr Ser Gly Arg Trp Val Pro Ala Pro Ser
      100            105            110
Arg Pro Arg Pro Pro Ser Leu Leu Pro Ala Ser Cys Pro Ala Asp Pro
      115            120            125

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<210> 2456

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2456

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Met Cys Trp Leu Phe Phe Leu Arg Trp Ser Pro Thr Val Ser Ser Arg
 1             5             10             15
Leu Glu Cys Ser Gly Val Ile Leu Ala His Arg Asn Leu Ser Leu Pro
          20             25             30
Gly Ser Ser Asn Ser Cys Ala Ser Ala Ser Arg Val Ala Gly Thr Thr
      35             40             45
Gly Thr His Asn His Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr
      50             55             60
Gly Phe Cys His Val Ala Gln Ala Gly Leu Glu Leu Leu Ala Ser Ser

```

65                      70                      75                      80  
 Asp Pro Pro Ala Ser Ala Ser Gln Lys Tyr Trp Asp Tyr Arg His Glu  
                             85                      90                      95  
 Pro Pro Arg Pro Ala Trp Pro Phe Asp Phe Ile Phe Ile Ser Ser Trp  
                             100                      105                      110  
 Pro Gln Asn Ser Cys Trp Ile Leu Gln Thr Leu His Leu Tyr Gln Gly  
                             115                      120                      125  
 Arg Lys Lys Arg Asp Arg Ala Glu Phe Val Asn Cys Leu Cys Arg Phe  
                             130                      135                      140  
 Tyr Gln Glu Lys Lys Ser Val Pro Arg Arg Leu Pro Thr Asp Phe Leu  
 145                      150                      155                      160

<210> 2457

<211> 204

<212> PRT

<213> Homo sapiens

<400> 2457

Met Asp Ser Asp Ser Gly Glu Gln Ser Glu Gly Glu Pro Val Thr Ala  
   1                      5                      10                      15  
 Ala Gly Pro Asp Val Phe Ser Ser Lys Ser Leu Ala Leu Gln Ala Gln  
                             20                      25                      30  
 Lys Lys Ile Leu Ser Lys Ile Ala Ser Lys Thr Val Ala Asn Met Leu  
                             35                      40                      45  
 Ile Asp Asp Thr Ser Ser Glu Ile Phe Asp Glu Leu Tyr Lys Val Thr  
                             50                      55                      60  
 Lys Glu His Thr His Asn Lys Lys Glu Ala His Lys Ile Met Lys Asp  
 65                      70                      75                      80  
 Leu Ile Lys Val Ala Ile Lys Ile Gly Ile Leu Tyr Arg Asn Asn Gln  
                             85                      90                      95  
 Phe Ser Gln Glu Glu Leu Val Ile Val Glu Lys Phe Arg Lys Lys Leu  
                             100                      105                      110  
 Asn Gln Thr Ala Met Thr Ile Val Ser Phe Tyr Glu Val Glu Tyr Thr  
                             115                      120                      125  
 Phe Asp Arg Asn Val Leu Ser Asn Leu Leu His Glu Cys Lys Asp Leu

130	135	140	
Val His Glu Leu Val	Gln Arg His Leu Thr Pro Arg Thr His Gly Arg		
145	150	155	160
Ile Asn His Val Phe Asn His Phe Ala Asp Val Glu Phe Leu Ser Thr			
	165	170	175
Leu Tyr Ser Leu Asp Gly Asp Cys Arg Pro Asn Leu Lys Arg Ile Cys			
	180	185	190
Glu Gly Ile Asn Lys Leu Leu Asp Glu Lys Val Leu			
195	200		

&lt;210&gt; 2458

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2458

Met Glu Pro Thr Tyr Arg Val Ala Ser Arg Glu Thr His Gly His Ala			
1	5	10	15
Pro Ser Leu Arg Pro Ser Gly Pro Leu Val Lys Leu His Gln Gly Cys			
	20	25	30
Phe Leu Leu Gly Cys Val Ser Gly Arg Gln Leu Arg Leu Val Gly Asp			
	35	40	45
Asn Leu Cys Trp Glu Val Thr Leu Leu Pro Arg Lys Phe Trp Asn Pro			
	50	55	60
Gln Pro Gly Ala Gly Thr Gly Ala Ser Ser Leu Ala Glu Ser Gln Val			
	65	70	75
Thr Arg Gly Pro His Val Ser Gly Phe Thr Phe Pro Tyr Phe Ile His			
	85	90	95
Ser Leu Thr Gln Ser Leu Arg Ile Thr Glu Glu His Trp Ala Glu His			
	100	105	110
Met Thr Gly Ser Leu Glu Pro Arg Gly Leu Gln Arg Gly Leu Arg Arg			
	115	120	125
Val Val Arg Val Thr Thr Val Gly Ser Leu Pro Ser Gln Lys Val Asp			
	130	135	140
Arg Ala Tyr Pro Gly Gly Gly Asp His Pro Ala Ile Arg Cys Leu Arg			

145                      150                      155                      160  
 Gln Gly Leu Gly Gln Leu Arg Gln Ala Val Phe Phe Phe Pro Phe Leu  
                             165                      170                      175  
 Phe Asn Arg Cys Asn Ile Phe Ile Ile Ile Leu Glu Thr Phe Phe Leu  
                             180                      185                      190  
 Pro Lys Ile Thr Asp Gln Lys Lys Phe His Leu Lys Tyr His Ala Gln  
                             195                      200                      205  
 Glu Ser Thr Trp Asp Gln Lys  
                             210                      215

<210> 2459

<211> 718

<212> PRT

<213> Homo sapiens

<400> 2459

Met Asp Leu Gly Lys Val Arg Arg Ala Lys Ala Ile Leu Ser His Leu  
   1                      5                      10                      15  
 Val Lys Cys Ile Ala Gly Glu Val Ala Ile Val Arg Asp Pro Asp Ala  
                             20                      25                      30  
 Gly Glu Gly Thr Lys Arg His Leu Ser Arg Thr Ile Ser Val Ser Gly  
                             35                      40                      45  
 Ser Thr Ala Lys Glu Thr Val Thr Val Gly Lys Asp Gly Thr Arg Asp  
                             50                      55                      60  
 Tyr Thr Glu Ile Asp Ser Ile Pro Pro Leu Pro Leu Tyr Ala Leu Leu  
   65                      70                      75                      80  
 Ala Ala Asp Gln Asp Thr Ser Tyr Arg Ile Ser Glu Glu Ser Thr Lys  
                             85                      90                      95  
 Ile Pro Gln Ser Tyr Glu Asp Gln Thr Val Ser Gln Pro Glu Asp Gln  
                             100                      105                      110  
 Tyr Ser Glu Leu Phe Gln Ile Gln Asp Ile Pro Thr Asp Asp Ile Asp  
                             115                      120                      125  
 Leu Glu Pro Glu Lys Arg Glu Asn Lys Ser Lys Val Ile Asn Leu Ser  
                             130                      135                      140  
 Gln Tyr Gly Pro Ala Tyr Phe Gly Gln Glu His Ala Arg Val Leu Ser

145	150	155	160
Ser His Leu Met His Ser Ser Leu Pro Gly Leu Thr Arg Leu Glu Gln			
	165	170	175
Met Phe Leu Val Ala Leu Ala Asp Thr Val Ala Thr Thr Ser Thr Glu			
	180	185	190
Leu Asp Glu Ser Arg Asp Lys Ser Cys Ser Gly Arg Asp Thr Leu Asp			
	195	200	205
Glu Cys Gly Leu Arg Tyr Leu Leu Ala Met Arg Leu His Thr Cys Leu			
	210	215	220
Leu Thr Ser Leu Pro Pro Leu Tyr Arg Val Gln Leu Leu His Gln Gly			
225	230	235	240
Val Ser Thr Cys His Phe Ala Trp Ala Phe His Ser Glu Ala Glu Glu			
	245	250	255
Glu Leu Ile Asn Met Ile Pro Ala Ile Gln Arg Gly Asp Pro Gln Trp			
	260	265	270
Ser Glu Leu Arg Ala Met Gly Ile Gly Trp Trp Val Arg Asn Ile Asn			
	275	280	285
Thr Leu Arg Arg Cys Ile Glu Lys Val Ala Lys Ala Ser Phe Gln Arg			
	290	295	300
Asn Asn Asp Ala Leu Asp Ala Ala Leu Phe Tyr Leu Ser Met Lys Lys			
305	310	315	320
Lys Ala Val Val Trp Gly Leu Phe Arg Ser Gln His Asp Glu Lys Met			
	325	330	335
Thr Thr Phe Phe Ser His Asn Phe Asn Glu Asp Arg Trp Arg Lys Ala			
	340	345	350
Ala Leu Lys Asn Ala Phe Ser Leu Leu Gly Lys Gln Arg Phe Glu Gln			
	355	360	365
Ser Ala Ala Phe Phe Leu Leu Ala Gly Ser Leu Lys Asp Ala Ile Glu			
	370	375	380
Val Cys Leu Glu Lys Met Glu Asp Ile Gln Leu Ala Met Val Ile Ala			
385	390	395	400
Arg Leu Tyr Glu Ser Glu Phe Glu Thr Ser Ser Thr Tyr Ile Ser Ile			
	405	410	415
Leu Asn Gln Lys Ile Leu Gly Cys Gln Lys Asp Gly Ser Gly Phe Ser			
	420	425	430

Cys Lys Arg Leu His Pro Asp Pro Phe Leu Arg Ser Leu Ala Tyr Trp  
 435 440 445  
 Val Met Lys Asp Tyr Thr Arg Ala Leu Ala Thr Leu Leu Glu Gln Thr  
 450 455 460  
 Pro Lys Glu Asp Asp Glu His Gln Val Ile Ile Lys Ser Cys Asn Pro  
 465 470 475 480  
 Val Ala Phe Ser Phe Tyr Asn Tyr Leu Arg Thr His Pro Leu Leu Ile  
 485 490 495  
 Arg Arg Asn Leu Ala Ser Pro Glu Gly Thr Leu Ala Thr Leu Gly Leu  
 500 505 510  
 Lys Thr Glu Lys Asn Phe Val Asp Lys Ile Asn Leu Ile Glu Arg Lys  
 515 520 525  
 Leu Phe Phe Thr Thr Ala Asn Ala His Phe Lys Val Gly Cys Pro Val  
 530 535 540  
 Leu Ala Leu Glu Val Leu Ser Lys Ile Pro Lys Val Thr Lys Thr Ser  
 545 550 555 560  
 Ala Leu Ser Ala Lys Lys Asp Gln Pro Asp Phe Ile Ser His Arg Met  
 565 570 575  
 Asp Asp Val Pro Ser His Ser Lys Ala Leu Ser Asp Gly Asn Gly Ser  
 580 585 590  
 Ser Gly Ile Glu Trp Ser Asn Val Thr Ser Ser Gln Tyr Asp Trp Ser  
 595 600 605  
 Gln Pro Ile Val Lys Val Asp Glu Glu Pro Leu Asn Leu Asp Trp Gly  
 610 615 620  
 Glu Asp His Asp Ser Ala Leu Asp Glu Glu Glu Asp Asp Ala Val Gly  
 625 630 635 640  
 Leu Val Met Lys Ser Thr Asp Ala Arg Glu Lys Asp Lys Gln Ser Asp  
 645 650 655  
 Gln Lys Ala Ser Asp Pro Asn Met Leu Leu Thr Pro Gln Glu Glu Asp  
 660 665 670  
 Asp Pro Glu Gly Asp Thr Glu Val Asp Val Ile Ala Glu Gln Leu Lys  
 675 680 685  
 Phe Arg Ala Cys Leu Lys Ile Leu Met Thr Glu Leu Arg Thr Leu Ala  
 690 695 700  
 Thr Gly Tyr Glu Val Asp Gly Gly Lys Leu Ile His Leu Leu  
 705 710 715

&lt;210&gt; 2460

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2460

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Met Glu Thr Lys Lys Asp His Pro Tyr Thr Trp Arg Ile Glu Leu Ala
 1             5             10             15
Lys Thr Glu Lys Tyr Trp Asp Gly Trp Phe Arg Gly Leu Ser Asn Leu
          20             25             30
Phe Leu Ser Cys Pro Ile Pro Lys Leu Leu Leu Leu Ala Gly Val Asp
          35             40             45
Arg Leu Asp Lys Asp Leu Thr Ile Gly Gln Met Gln Gly Lys Phe Gln
          50             55             60
Met Gln Val Leu Pro Gln Cys Gly His Ala Val His Glu Asp Ala Pro
          65             70             75             80
Asp Lys Val Ser Leu Val Leu Ser Asp Cys Lys Arg Thr Thr Val Arg
          85             90             95
Ile Thr Leu Asp Val Thr Glu Asp Lys Ser Leu Ser Leu Ser Leu His
          100            105            110
Cys Leu Gln Gln Leu Leu Trp Ser Leu Cys Arg Cys Ser Ser Thr Ser
          115            120            125
Ser Pro Thr Ser Pro Trp Gln Leu Leu Met Val Leu Val Leu Cys Ile
          130            135            140
Cys Ala Glu Glu Leu Leu Thr Leu Cys Tyr Phe Ile Pro Gly Pro Cys
          145            150            155            160
Gly

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&lt;210&gt; 2461

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2461

Met Thr Lys Pro Trp Ile Arg Ser His Glu Thr Arg Ile Gln Glu Ser  
 1 5 10 15  
 Leu Ser Gln Phe Gly His Lys Gln Val Met Ile Asn Pro Gly Pro Thr  
 20 25 30  
 Thr Ser Leu Gly Asn Thr Thr Ile Ser Gln Ser Ala Lys Thr Glu Pro  
 35 40 45  
 Glu Arg Glu Thr Leu Gln Val Gln Glu Glu Arg Phe Gln Leu Leu Leu  
 50 55 60  
 Leu Ser Val Ala Ser Pro Asn Val Thr Thr Phe Ser Glu Gln Gly Leu  
 65 70 75 80  
 Val Thr Thr Thr Lys His Cys Ser Gly Thr Ala Glu Pro Leu Ala Trp  
 85 90 95  
 His Val Val Thr His Ser Gln His Asn Ser Leu Thr Phe  
 100 105

&lt;210&gt; 2462

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2462

Met His Gln Gly Leu Lys Asp Val Gly Ala Lys Val Thr Gly Phe Ser  
 1 5 10 15  
 Glu Gly Val Val Asp Ser Val Lys Gly Gly Phe Ser Ser Phe Ser Gln  
 20 25 30  
 Ala Thr His Ser Ala Ala Gly Ala Val Val Ser Lys Pro Arg Glu Ile  
 35 40 45  
 Ala Ser Leu Ile Arg Asn Lys Phe Gly Ser Ala Asp Asn Ile Pro Asn  
 50 55 60  
 Leu Lys Asp Ser Leu Glu Glu Gly Gln Val Asp Asp Ala Gly Lys Ala  
 65 70 75 80  
 Leu Gly Val Ile Ser Asn Phe Gln Ser Ser Pro Lys Tyr Gly Ser Glu  
 85 90 95



Glu Asp Cys Ser Ser Ala Thr Ser Gly Ser Val Gly Ala Asn Ser Thr  
                   100                  105                  110  
 Thr Gly Gly Ile Ala Val Gly Ala Ser Ser Ser Lys Thr Asn Thr Leu  
                   115                  120                  125  
 Asp Met Gln Ser Ser Gly Phe Asp Ala Leu Leu His Glu Ile Gln Glu  
                   130                  135                  140  
 Ile Arg Glu Thr Gln Ala Arg Leu Glu Glu Ser Phe Glu Thr Leu Lys  
 145                  150                  155                  160  
 Glu His Tyr Gln Arg Asp Tyr Ser Leu Ile Met Gln Thr Leu Gln Glu  
                   165                  170                  175  
 Glu Arg Tyr Arg Cys Glu Arg Leu Glu Glu Gln Leu Asn Asp Leu Thr  
                   180                  185                  190  
 Glu Leu His Gln Asn Glu Ile Leu Asn Leu Lys Gln Glu Leu Ala Ser  
                   195                  200                  205  
 Met Glu Glu Lys Ile Ala Tyr Gln Ser Tyr Glu Arg Ala Arg Asp Ile  
                   210                  215                  220  
 Gln Glu Ala Leu Glu Ala Cys Gln Thr Arg Ile Ser Lys Met Glu Leu  
 225                  230                  235                  240  
 Gln Gln Gln Gln Gln Gln Val Val Gln Leu Glu Gly Leu Glu Asn Ala  
                   245                  250                  255  
 Thr Ala Arg Asn Leu Leu Gly Lys Leu Ile Asn Ile Leu Leu Ala Val  
                   260                  265                  270  
 Met Ala Val Leu Leu Val Phe Val Ser Thr Val Ala Asn Cys Val Val  
                   275                  280                  285  
 Pro Leu Met Lys Thr Arg Asn Arg Thr Phe Ser Thr Leu Phe Leu Val  
                   290                  295                  300  
 Val Phe Ile Ala Phe Leu Trp Lys His Trp Asp Ala Leu Phe Ser Tyr  
 305                  310                  315                  320  
 Val Glu Arg Phe Phe Ser Ser Pro Arg  
                   325

<210> 2463

<211> 105

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2463

Met Val Ser Thr Thr Ser Phe Ile Ala Cys Phe Leu Ile Trp Pro Pro  
 1 5 10 15  
 Ala Arg Leu Val Met Glu Gly Val His Ser Pro Gly Ser Val Ile Val  
 20 25 30  
 Pro Ile Leu Tyr Glu Ala Cys Leu Trp Ser Gly Pro Leu Thr Val Phe  
 35 40 45  
 Ile Leu Leu Asp Pro Tyr Ser Pro Ile Arg Gln Val Leu Pro Leu Arg  
 50 55 60  
 Ile Lys Asn Lys Val Ser Glu Glu Glu Val Gly Lys Tyr Thr Ile Val  
 65 70 75 80  
 Gly Ile Cys Ala Lys Arg Ser His Glu Lys Arg Phe Leu His Gln Pro  
 85 90 95  
 Arg Lys Val Glu Met Ser Ala Leu Arg  
 100 105

&lt;210&gt; 2464

&lt;211&gt; 210

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2464

Met Leu Leu Leu Pro Pro Ser Cys Glu Ala Val Ala Pro Arg Gly Trp  
 1 5 10 15  
 Arg Arg Ser Cys Ser Cys Pro Glu Cys Cys Arg Val Cys Ser Ser Pro  
 20 25 30  
 Val Arg Leu Gln Arg His Arg Ala Leu Leu Ser Thr Pro Glu Ser Phe  
 35 40 45  
 Ala Cys Ala Ala Ser Ala Arg Ala Ser Ser Ala Pro Gly Pro Gly Ala  
 50 55 60  
 Ala Arg Glu Pro Ala Ser Gly Phe Gln Trp Ala Pro Trp Ala Val Pro  
 65 70 75 80  
 Ala Phe Pro Thr Ser Ala Ser Gly Lys Ala Trp Pro Ser Leu Arg Phe  
 85 90 95

Gly Val Ala Thr Cys Leu Leu Gly Ile Ser His Leu Pro Thr Cys Ala  
                   100                  105                  110  
 Cys Ser Arg Leu Ala Leu Cys Gly Pro Arg Phe Pro His Val Pro Arg  
                   115                  120                  125  
 Gly Lys Asn Ile Pro Ser Pro Thr Ile Trp Gln Arg Leu Ala Phe Ser  
                   130                  135                  140  
 Gly Pro Arg Pro Pro His Leu Leu Gly Gly Glu Ser Arg Pro Gly His  
                   145                  150                  155                  160  
 Ile Gly Ala Asn Gly Trp Ser Leu Asp Leu Gly Leu His Ile Cys Ser  
                   165                  170                  175  
 Ala Gly Arg Asn Ile Pro Ser Pro Ala Leu Tyr Leu Gly Gly Trp Pro  
                   180                  185                  190  
 Arg Pro Ser Arg Gln Arg Arg Pro Ser Gly Lys Arg Thr Asn Pro Cys  
                   195                  200                  205  
 Gly Pro  
                   210

<210> 2465

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2465

Met Leu Pro Ser Pro Pro Thr Asp Val Ile Ser Phe Tyr Ile Arg Asp  
           1                  5                  10                  15  
 Ser Ser Glu Pro Thr Pro Leu Arg Ile Tyr Thr Leu Val Phe Val Leu  
                   20                  25                  30  
 Leu Leu Ser Leu Gly Trp Pro Val Thr Leu Ile Ser Ala Met Gln Lys  
                   35                  40                  45  
 Trp Phe Ser Ala Ser Ser Lys Thr Thr Lys Arg Lys Lys Ser Ser Thr  
                   50                  55                  60  
 Phe Gln Tyr Pro Ser Arg His Gln Ala Pro Ala Val Ser Pro Ala Ser  
                   65                  70                  75                  80  
 Arg Pro Arg Val Thr Thr Thr Asn Pro Ala Glu Pro Thr Ser Ala Ser  
                   85                  90                  95

Gln Pro Trp Leu Gln Asn His Glu

100

<210> 2466

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2466

Met Val Val Ser Trp Leu Leu Glu Thr Arg His Asn Gln Glu Gly Glu

1

5

10

15

Gly Ile Asn Leu Gly Trp Ala Gly Ala Glu Thr His Gly Met Thr Pro

20

25

30

Ile Leu Ser Pro Gln Ala Arg Pro Pro Arg His Pro Gln Asp His Thr

35

40

45

Gly Glu Ser His Pro His Gly Leu Asp Trp Ser Trp Gly Pro Pro Val

50

55

60

Val Leu Leu Thr Gly Val Gln Cys Ser Arg Ala Ala Gln Arg Gly Ala

65

70

75

80

Arg Lys Gly Pro Ser Pro Ser Pro Ala Ile Pro Ile Ser Ala Ser Leu

85

90

95

Ala Leu Val Pro

100

<210> 2467

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2467

Met Thr Lys Val Ser Ser Ser Leu Gln Ser His Pro Phe Gln Leu Gly

1

5

10

15

Gly Pro Arg Leu His Cys Asn Ser Asn Ser Gln Ile Ser Val Asp Val

20

25

30

<210> 2468  
<211> 269  
<212> PRT  
<213> Homo sapiens

Met	Pro	Phe	Met	Asp	Glu	Ser	Ser	Gly	Ser	Asp	Asp	Asp	Cys	Ser	Ser
1				5					10					15	
Gln	Ala	Ser	Phe	Arg	Ile	Ser	Val	Pro	Ser	Ser	Glu	Ser	Arg	Lys	Thr
			20					25					30		
Ser	Gly	Leu	Gly	Ser	Pro	Arg	Ala	Ile	Lys	Arg	Gly	Val	Ser	Met	Ser
		35					40					45			
Ser	Leu	Ser	Ser	Glu	Gly	Asp	Tyr	Ala	Ile	Pro	Pro	Asp	Ala	Cys	Ser
	50					55				60					
Leu	Asp	Ser	Asp	Tyr	Ser	Glu	Pro	Glu	His	Lys	Leu	Gln	Arg	Thr	Ser
65				70					75					80	
Ser	Tyr	Ser	Thr	Asp	Gly	Leu	Gly	Leu	Gly	Gly	Glu	Ser	Leu	Glu	Lys
			85					90					95		
Ser	Gly	Tyr	Leu	Leu	Lys	Met	Gly	Ser	Gln	Val	Lys	Thr	Trp	Lys	Arg
		100					105					110			

Arg Trp Phe Val Leu Arg Gln Gly Gln Ile Met Tyr Tyr Lys Ser Pro  
 115 120 125  
 Ser Asp Val Ile Arg Lys Pro Gln Gly Gln Val Asp Leu Asn Ser Arg  
 130 135 140  
 Cys Gln Ile Val Arg Gly Glu Gly Ser Gln Thr Phe Gln Leu Ile Ser  
 145 150 155 160  
 Glu Lys Lys Thr Tyr Tyr Leu Thr Ala Asp Ser Pro Ser Leu Leu Glu  
 165 170 175  
 Glu Trp Ile Arg Val Leu Gln Ser Leu Leu Lys Val Gln Ala Thr Gly  
 180 185 190  
 Pro Pro Ala Leu Leu Arg Gly Gly Thr Lys Pro Thr Val Lys Gly Trp  
 195 200 205  
 Leu Thr Lys Val Lys His Gly His Ser Lys Val Val Trp Cys Ala Leu  
 210 215 220  
 Val Gly Lys Ile Phe Tyr Tyr Tyr Arg Ser His Glu Asp Lys Val Leu  
 225 230 235 240  
  
 Leu Ser Leu Leu Thr Ile Pro Thr Leu Leu Leu Pro Pro Lys His Met  
 245 250 255  
 Thr Ala Thr Leu Cys Pro Asp Glu Ser Pro Tyr Pro Thr  
 260 265

<210> 2469

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2469

Met Lys Arg Ser Cys Cys Gly Arg Asn Leu Ser His Gln Asn His Ser  
 1 5 10 15  
 Ala Ile Ile Leu Pro Cys Gly Gly Thr Gly Gly Arg Tyr Ser Val Leu  
 20 25 30  
 Leu Thr Ala Val His Phe Arg Gly Leu Thr Met Glu Gln Thr Ala Trp  
 35 40 45  
 Val Leu Asp Leu Asp Thr Gly Glu Ala Val Leu Gln Tyr Arg Ser Leu

50                      55                      60  
 Pro Arg Gly Ala His Lys Thr Leu Gly Lys Lys Arg Lys Ile Ser Ser  
 65                      70                      75                      80  
 Tyr Asn Val Asn Leu Thr Ser Cys Gln Leu Ala Lys Glu Lys Cys Leu  
                     85                      90                      95  
 Lys Gly Pro Ser Ser Phe Leu Gln Ser Arg His Glu Arg Leu Asn Ser  
                     100                      105                      110  
 Glu Leu Arg Asp Asn Lys Trp Thr Thr Gly Thr Phe Gly Gln Thr Cys  
                     115                      120                      125  
 Asn Phe Ile Ser  
 130

<210> 2470

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2470

Met Gly Leu Arg Pro Pro Gly Asn Asn His Arg Ala Cys Ser Ser Ala  
 1                      5                      10                      15  
 Pro Ala Ser Pro Glu Ser His Pro Arg Asp Gln Pro His Pro Gln His  
                     20                      25                      30  
 Asn Cys Pro Ala Gly Glu Ala Pro Trp Ala Trp Arg Gly Phe Pro Asp  
                     35                      40                      45  
 Thr Ala His Pro Gly Pro Ala Ser Ser Thr Lys Thr Glu Thr Leu Ala  
                     50                      55                      60  
 Thr His Gly Gly Trp Gly Pro Gly Val Leu Arg Arg Gly Tyr Pro Gly  
 65                      70                      75                      80  
 Pro Arg Pro Glu Ile His Gln Leu His Pro Arg Gly Gly Thr Ala Asp  
                     85                      90                      95  
 Gly Ser Gln His Gln Gln Asp Pro Arg Ala Pro Arg Thr Glu Val Cys  
                     100                      105                      110  
 Pro Thr His Phe Leu Pro Thr Thr Cys Ala Pro Glu Ser Arg Ala Cys  
                     115                      120                      125  
 Pro Gly Arg Trp Arg Pro Gly Val Glu Cys Thr Cys Ser His Glu Val

130                      135                      140  
 Leu Gly Val Phe  
 145

<210> 2471  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<400> 2471  
 Met Ala Lys Thr Glu Ile Glu Leu Gln Tyr Arg Ala Phe Pro Leu Leu  
     1                    5                    10                    15  
 Gly Leu Lys Ser Arg Cys Leu Trp Lys Gly His Thr Phe Asp Ser Leu  
                     20                    25                    30  
 Asp Ser Gly Glu Val Thr Lys Val Pro Arg Lys Trp Glu His Lys Trp  
                     35                    40                    45  
 Glu Leu Leu Glu Val Ser Gly Val Pro Gly Gly Pro Ser Thr Glu Ser  
                     50                    55                    60  
 Gly Val Leu Asn His Gln Ser Glu Leu Pro Glu Cys Gln Arg Glu Leu  
     65                    70                    75                    80  
 Val Val Ala Gly His Cys Trp Asn Arg Asn Leu Glu Lys Gln Pro Ser  
                     85                    90                    95  
 Arg Ser Pro Ala Cys Leu Gln Asp Gly Pro Gly Ile Leu Gly Leu Lys  
                     100                    105                    110  
 Arg Cys Gly Glu Gln  
                     115

<210> 2472  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 2472  
 Met Pro Leu Gly Cys Arg Glu Glu Ala Gly Gly Val Met Gly Met Gly



1	5	10	15
Ser Gly Arg Gly Arg Glu Gly Pro Ser Thr Lys Ala Trp Glu Met Arg			
20	25	30	
Gly Gly Gly Gly Arg Ala Gly Glu Ala Lys Ser Gln Pro Trp Arg Glu			
35	40	45	
His Pro Gly Ala Ser Val Ser Gly Tyr Thr Gln His Phe Ala Thr Cys			
50	55	60	
Gly Pro Ala Gly Ala Glu Asp Gly Gly Glu Glu Ala Ser Ser Pro Cys			
65	70	75	80
Val Tyr Cys Arg Gln Lys Gly Leu Val Phe Trp Phe Trp Gly Phe Cys			
85	90	95	
Phe Val Cys Val Leu Phe Gly Leu Phe Val Phe			
100	105		

&lt;210&gt; 2473

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2473

Met Arg Arg Val Gly Asp Glu Asn Phe Trp Pro Pro Cys Ser Gly Leu			
1	5	10	15
Leu Phe Lys His Leu Lys Ile Ser Arg Ser Phe Thr Leu Gly Gln Met			
20	25	30	
Thr Ser Ala Gly Ile Leu Leu Cys Pro Cys Cys Ala Lys Arg Glu Ser			
35	40	45	
Ile Ser Ser Phe Asp Phe His Tyr Lys Lys Pro Leu Ser Leu Thr Phe			
50	55	60	
Val Leu Cys Arg Cys His Tyr Tyr Tyr Trp Glu Gln Cys Cys Val Ile			
65	70	75	80
Asn Thr Gly Ala Leu Glu Thr Ala Thr Leu Asp Trp Ile Pro Thr Leu			
85	90	95	
Pro Leu Thr Cys Val Ala			
100			

&lt;210&gt; 2474

&lt;211&gt; 109

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2474

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Met Leu Cys Gly Glu Pro Ser Arg Gly Phe Ser Pro Ser His Leu His
  1             5             10             15
Gln His Ile Pro Asp Leu Ala Ser His Ser Cys Ala Leu Ser Ala Ser
          20             25             30
Phe Leu Phe Leu Val Pro Leu Pro Leu Glu Gln Val Asn Tyr Arg Asn
          35             40             45
Thr Arg Arg Asp Ser Arg Asn Pro Leu Ser Leu Arg Phe Tyr Leu Gln
          50             55             60
Met Ile Gly Ala Leu Phe Leu Gly Thr Ser Ser Ser Ser His Ser Gln
          65             70             75             80
Leu Val Thr Leu Glu Leu Pro Val Gly Arg Ala Gln Gly Cys Arg Ala
          85             90             95
Leu Gly Gly His Leu Pro His Ser Leu Pro Thr His Gln
          100             105

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&lt;210&gt; 2475

&lt;211&gt; 515

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2475

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Met Ser Ser Glu Met Glu Pro Leu Leu Leu Ala Trp Ser Tyr Phe Arg
  1             5             10             15
Arg Arg Lys Phe Gln Leu Cys Ala Asp Leu Cys Thr Gln Met Leu Glu
          20             25             30
Lys Ser Pro Tyr Asp Gln Glu Pro Asp Pro Glu Leu Pro Val His Gln
          35             40             45
Ala Ala Trp Ile Leu Lys Ala Arg Ala Leu Thr Glu Met Val Tyr Ile

```

50	55	60	
Asp Glu Ile Asp Val	Asp Gln Glu Gly Ile Ala Glu Met Met Leu Asp		
65	70	75	80
Glu Asn Ala Ile Ala Gln Val Pro Arg Pro Gly Thr Ser Leu Lys Leu			
	85	90	95
Pro Gly Thr Asn Gln Thr Gly Gly Pro Ser Gln Ala Val Arg Pro Ile			
	100	105	110
Thr Gln Ala Gly Arg Pro Ile Thr Gly Phe Leu Arg Pro Ser Thr Gln			
	115	120	125
Ser Gly Arg Pro Gly Thr Met Glu Gln Ala Ile Arg Thr Pro Arg Thr			
	130	135	140
Ala Tyr Thr Ala Arg Pro Ile Thr Ser Ser Ser Gly Arg Phe Val Arg			
145	150	155	160
Leu Gly Thr Ala Ser Met Leu Thr Ser Pro Asp Gly Pro Phe Ile Asn			
	165	170	175
Ile Ser Arg Leu Asn Leu Thr Lys Tyr Ser Gln Lys Pro Lys Leu Ala			
	180	185	190
Lys Ala Leu Phe Glu Tyr Ile Phe His His Glu Asn Asp Val Lys Thr			
	195	200	205
Ala Leu Asp Leu Ala Ala Leu Ser Thr Glu His Ser Gln Tyr Lys Asp			
	210	215	220
Trp Trp Trp Lys Val Gln Ile Gly Lys Cys Tyr Tyr Arg Leu Gly Met			
225	230	235	240
Tyr Arg Glu Ala Glu Lys Gln Phe Lys Ser Ala Leu Lys Gln Gln Glu			
	245	250	255
Met Val Asp Thr Phe Leu Tyr Leu Ala Lys Val Tyr Val Ser Leu Asp			
	260	265	270
Gln Pro Val Thr Ala Leu Asn Leu Phe Lys Gln Gly Leu Asp Lys Phe			
	275	280	285
Pro Gly Glu Val Thr Leu Leu Cys Gly Ile Ala Arg Ile Tyr Glu Glu			
	290	295	300
Met Asn Asn Met Ser Ser Ala Ala Glu Tyr Tyr Lys Glu Val Leu Lys			
305	310	315	320
Gln Asp Asn Thr His Val Glu Ala Ile Ala Cys Ile Gly Ser Asn His			
	325	330	335
Phe Tyr Ser Asp Gln Pro Glu Ile Ala Leu Arg Phe Tyr Arg Arg Leu			

340 345 350  
 Leu Gln Met Gly Ile Tyr Asn Gly Gln Leu Phe Asn Asn Leu Gly Leu  
 355 360 365  
 Cys Cys Phe Tyr Ala Gln Gln Tyr Asp Met Thr Leu Thr Ser Phe Glu  
 370 375 380  
 Arg Ala Leu Ser Leu Ala Glu Asn Glu Glu Glu Ala Ala Asp Val Trp  
 385 390 395 400  
 Tyr Asn Leu Gly His Val Ala Val Gly Ile Gly Asp Thr Asn Leu Ala  
 405 410 415  
 His Gln Cys Phe Arg Leu Ala Leu Val Asn Asn Asn Asn His Ala Glu  
 420 425 430  
 Ala Tyr Asn Asn Leu Ala Val Leu Glu Met Arg Lys Gly His Val Glu  
 435 440 445  
 Gln Ala Arg Ala Leu Leu Gln Thr Ala Ser Ser Leu Ala Pro His Met  
 450 455 460  
 Tyr Glu Pro His Phe Asn Phe Ala Thr Ile Ser Asp Lys Ile Gly Asp  
 465 470 475 480  
 Leu Gln Arg Ser Tyr Val Ala Ala Gln Lys Ser Glu Ala Ala Phe Pro  
 485 490 495  
 Asp His Val Asp Thr Gln His Leu Ile Lys Gln Leu Arg Gln His Phe  
 500 505 510  
 Ala Met Leu  
 515

<210> 2476

<211> 153

<212> PRT

<213> Homo sapiens

<400> 2476

Met Asp Gln Asp Ser Val Ser Thr Lys Thr Cys Pro Glu Thr His Arg  
 1 5 10 15  
 Lys Ser Gly Pro Arg Arg Arg Glu Gln His Gly Ala Leu Gly Ala Ala  
 20 25 30  
 Asn Ala His Asp Thr Val Arg Asp Gly Glu Arg Tyr Asp Arg Arg Ser

35                      40                      45  
 Arg Pro Arg Arg Arg Glu Gln His Gly Ala Leu Gly Ala Ala Asn Ala  
 50                      55                      60  
 His Asp Thr Val Arg Asp Gly Glu Arg Tyr Asp Arg Arg Ser Arg Pro  
 65                      70                      75                      80  
 Arg Arg Arg Glu Gln His Gly Ala Leu Gly Ala Ala Asn Ala His Asp  
 85                      90                      95  
 Thr Val Arg Asp Gly Glu Arg Tyr Asp Arg Arg Ser Arg Pro Arg Arg  
 100                      105                      110  
 Gln Glu Gln His Gly Ala Leu Gly Ala Ala Asn Ala His Asp Thr Val  
 115                      120                      125  
 Arg Asp Gly Glu Arg Tyr Gly His Gly Gly His Lys Met Leu Leu Asn  
 130                      135                      140  
 Ile Tyr His Arg Pro Lys Trp Arg Thr  
 145                      150

<210> 2477

<211> 160

<212> PRT

<213> Homo sapiens

<400> 2477

Met Ser Gln Thr Gly Pro Pro Met Ser Met Ala Ala Pro Ala Arg Asn  
 1                      5                      10                      15  
 Ala Arg Val Ser Leu Pro Gly Leu Arg Val Asp Met Pro Ala Pro Cys  
 20                      25                      30  
 Gln Pro Pro Val Ala Trp Pro Gly Pro Pro Glu Pro Val Cys Pro Pro  
 35                      40                      45  
 Gln Gly Trp Arg Ser Leu Trp Ala Pro Gly Gly Phe Pro Pro Gly Asp  
 50                      55                      60  
 Ser His Gly Ala Pro Cys Ser Arg Val Val Thr Val Ser Pro Glu Met  
 65                      70                      75                      80  
 Thr Glu Thr Arg His Ser Pro Gly Pro Gln Arg Gly Gly Ala Ser Arg  
 85                      90                      95  
 Gln Thr Leu Gly Met Glu Leu Trp Cys Gly Leu Ser Cys Met Val Ala

	100		105		110										
Ser	Ala	Phe	Cys	Gln	His	Phe	Trp	Met	Asp	Ile	Gly	Thr	Ile	Ile	Ser
	115						120				125				
Ile	Leu	Ile	His	Gly	Asp	Phe	Lys	Thr	Thr	Ile	Lys	Leu	Ile	Gln	Ser
	130						135				140				
Pro	Leu	Thr	Leu	Thr	Asp	Val	Gly	Ile	Pro	Leu	Leu	Glu	Arg	Glu	Leu
145					150					155					160

&lt;210&gt; 2478

&lt;211&gt; 215

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2478

Met	Cys	Trp	Gly	Lys	His	Trp	Pro	Arg	Pro	Glu	Gly	Arg	Asn	Leu	Ala
1				5					10					15	
Cys	Ser	Lys	Gly	Ser	Pro	Gly	Trp	Arg	Thr	Ala	Gly	Gln	Gly	Ser	Gly
		20					25					30			
Ser	Tyr	Gly	Ala	Ala	Thr	Leu	Gly	Lys	Gly	Thr	Glu	Gln	Arg	Gly	Val
	35					40					45				
Gly	Ala	Leu	Arg	Arg	Gly	Leu	Leu	Ser	Phe	Thr	Cys	Phe	Cys	Leu	Ser
	50					55					60				
Asn	Trp	Thr	Ser	Gly	Ala	Gly	Phe	Ser	Glu	Met	Gly	Arg	Ser	Arg	Phe
65				70					75					80	
Glu	Glu	Gly	Arg	Leu	Gly	Tyr	Ser	Ser	Asp	Val	Leu	Ser	Ala	Arg	Pro
			85						90				95		
Thr	Met	Ser	Pro	Thr	Glu	Met	Leu	Arg	Ser	Arg	Ala	Leu	Asn	Leu	Gly
			100						105				110		
Ala	Ala	Thr	Val	Leu	Arg	Arg	His	Arg	Ala	Pro	Gln	Gly	Thr	Ser	Ser
		115					120					125			
Tyr	Gln	Glu	Gly	Arg	Arg	Ala	His	Glu	Ala	Thr	Ser	Ala	Glu	Ser	Asp
	130					135						140			
Asp	Asp	Asn	Gly	Val	Gln	Val	Leu	Ala	Ser	Leu	Ala	Val	Ser	Cys	Ala
145					150					155				160	
Gln	His	Ser	Arg	His	Lys	Asp	Pro	Val	Gly	Thr	Gln	Leu	Gln	Gln	Ala

165 170 175  
 Cys Ala Gln Val Pro Thr Ser Arg Ala Pro Leu Trp Pro Cys Pro Ser  
 180 185 190  
 His Arg Leu Met His Ser Thr Asp Gly Pro Leu Asp Pro Glu Pro Leu  
 195 200 205  
 Ser Thr Leu Leu Pro Ala Ala  
 210 215

<210> 2479

<211> 485

<212> PRT

<213> Homo sapiens

<400> 2479

Met Pro Trp Arg Thr Glu Ala Ala Arg Gln Met Trp Asp Thr Asn Glu  
 1 5 10 15  
 Glu Glu Glu Glu Glu Glu Glu Gly Leu Leu Lys Arg Lys Lys Arg  
 20 25 30  
 Arg Arg Gln Lys Ser Arg Lys Tyr Gln Thr Gly Glu Tyr Leu Thr Glu  
 35 40 45  
 Gln Glu Asp Glu Gln Arg Arg Lys Gly Arg Ala Asp Leu Lys Ala Arg  
 50 55 60  
 Lys Gln Lys Thr Ser Ser Ser Gln Ser Leu Glu His Arg Leu Arg Asn  
 65 70 75 80  
 Arg Asn Leu Leu Leu Pro Asn Lys Val Gln Gly Ile Ser Asp Ser Pro  
 85 90 95  
 Asn Gly Phe Leu Pro Asn Asn Leu Glu Glu Pro Ala Cys Leu Glu Asn  
 100 105 110  
 Ser Glu Lys Pro Ser Gly Lys Arg Lys Cys Lys Thr Lys His Met Ala  
 115 120 125  
 Thr Val Ser Glu Glu Ala Lys Gly Lys Gly Arg Trp Ser Gln Gln Lys  
 130 135 140  
 Thr Arg Ser Pro Lys Ser Pro Thr Pro Val Lys Pro Thr Glu Pro Cys  
 145 150 155 160  
 Thr Pro Ser Lys Ser Arg Ser Ala Ser Ser Glu Glu Ala Ser Glu Ser

	165		170		175
Pro Thr Ala Arg Gln Ile Pro Pro Glu Ala Arg Arg Leu Ile Val Asn					
	180		185		190
Lys Asn Ala Gly Glu Thr Leu Leu Gln Arg Ala Ala Arg Leu Gly Tyr					
	195		200		205
Lys Asp Val Val Leu Tyr Cys Leu Gln Lys Asp Ser Glu Asp Val Asn					
	210		215		220
His Arg Asp Asn Ala Gly Tyr Thr Ala Leu His Glu Ala Cys Ser Arg					
225		230		235	240
Gly Trp Thr Asp Ile Leu Asn Ile Leu Leu Glu His Gly Ala Asn Val					
	245		250		255
Asn Cys Ser Ala Gln Asp Gly Thr Arg Pro Val His Asp Ala Val Val					
	260		265		270
Asn Asp Asn Leu Glu Thr Ile Trp Leu Leu Leu Ser Tyr Gly Ala Asp					
	275		280		285
Pro Thr Leu Ala Thr Tyr Ser Gly Gln Thr Ala Met Lys Leu Ala Ser					
	290		295		300
Ser Asp Thr Met Lys Arg Phe Leu Ser Asp His Leu Ser Asp Leu Gln					
305		310		315	320
Gly Arg Ala Glu Gly Asp Pro Gly Val Ser Trp Asp Phe Tyr Ser Ser					
	325		330		335
Ser Ala Leu Glu Glu Lys Asp Gly Phe Ala Cys Asp Leu Leu His Asn					
	340		345		350
Pro Pro Gly Ser Ser Asp Gln Glu Gly Asp Asp Pro Met Glu Glu Asp					
	355		360		365
Asp Phe Met Phe Glu Leu Ser Asp Lys Pro Leu Leu Pro Cys Tyr Asn					
	370		375		380
Leu Gln Val Ser Val Ser Arg Gly Pro Cys Asn Trp Phe Leu Phe Ser					
385		390		395	400
Asp Val Leu Lys Arg Leu Lys Leu Ser Ser Arg Ile Phe Gln Ala Arg					
	405		410		415
Phe Pro His Phe Glu Ile Thr Thr Met Pro Lys Ala Glu Phe Tyr Arg					
	420		425		430
Gln Val Ala Ser Ser Gln Leu Leu Thr Pro Ala Glu Arg Pro Gly Gly					
	435		440		445
Leu Asp Asp Arg Ser Pro Pro Gly Ser Ser Glu Thr Val Glu Leu Val					



450                      455                      460  
 Arg Tyr Glu Pro Asp Leu Leu Arg Leu Leu Gly Ser Glu Val Glu Phe  
 465                      470                      475                      480  
 Gln Ser Cys Asn Ser  
                          485

<210> 2480

<211> 393

<212> PRT

<213> Homo sapiens

<400> 2480

Met Phe Lys Glu Gln Gln Leu Gln Ile Phe Asn Leu Met Lys Phe Asp  
   1                      5                      10                      15  
 Ser Tyr Thr Arg Phe Leu Lys Ser Pro Leu Tyr Gln Glu Cys Ile Leu  
                          20                      25                      30  
 Ala Glu Val Glu Gly Arg Ala Leu Pro Asp Ser Gln Gln Val Pro Ser  
                          35                      40                      45  
 Ser Pro Ala Ser Lys His Ser Leu Gly Ser Asp His Ser Ser Val Ser  
   50                      55                      60  
 Thr Pro Lys Lys Leu Ser Gly Lys Ser Lys Ser Gly Arg Ser Leu Asn  
   65                      70                      75                      80  
 Glu Glu Leu Gly Asp Glu Asp Ser Glu Lys Lys Arg Lys Gly Ala Phe  
                          85                      90                      95  
 Phe Ser Trp Ser Arg Thr Arg Ser Thr Gly Arg Ser Gln Lys Lys Arg  
                          100                      105                      110  
 Glu His Gly Asp His Ala Asp Asp Ala Leu His Ala Asn Gly Gly Leu  
                          115                      120                      125  
 Cys Arg Arg Glu Ser Gln Gly Ser Val Ser Ser Ala Gly Ser Leu Asp  
   130                      135                      140  
 Leu Ser Glu Ala Cys Arg Thr Leu Ala Pro Glu Lys Asp Lys Ala Thr  
   145                      150                      155                      160  
 Lys His Cys Cys Ile His Leu Pro Asp Gly Thr Ser Cys Val Val Ala  
                          165                      170                      175  
 Val Lys Ala Gly Phe Ser Ile Lys Asp Ile Leu Ser Gly Leu Cys Glu

180	185	190
Arg His Gly Ile Asn Gly Ala Ala Ala Asp Leu Phe Leu Val Gly Gly		
195	200	205
Asp Lys Pro Leu Val Leu His Gln Asp Ser Ser Ile Leu Glu Ser Arg		
210	215	220
Asp Leu Arg Leu Glu Lys Arg Thr Leu Phe Arg Leu Asp Leu Val Pro		
225	230	235
Ile Asn Arg Ser Val Gly Leu Lys Ala Lys Pro Thr Lys Pro Val Thr		
245	250	255
Glu Val Leu Arg Pro Val Val Ala Arg Tyr Gly Leu Asp Leu Ser Gly		
260	265	270
Leu Leu Val Arg Leu Ser Gly Glu Lys Glu Pro Leu Asp Leu Gly Ala		
275	280	285
Pro Ile Ser Ser Leu Asp Gly Gln Arg Val Val Leu Glu Glu Lys Asp		
290	295	300
Pro Ser Arg Gly Lys Ala Ser Ala Asp Lys Gln Lys Gly Val Pro Val		
305	310	315
Lys Gln Asn Thr Ala Val Asn Ser Ser Ser Arg Asn His Ser Ala Thr		
325	330	335
Val Ile Pro His Pro Gly Pro Pro Cys Ala Leu Leu Leu Pro Leu Trp		
340	345	350
Pro Pro Pro Ala Leu Arg Ser Ala Leu Val Leu Pro Tyr Arg Leu Leu		
355	360	365
Ile Thr Val Cys Leu Pro His Ala Pro Trp Arg Gly Leu Ser Arg Pro		
370	375	380
Cys Arg Cys Pro Ala Pro Ser Tyr Leu		
385	390	

&lt;210&gt; 2481

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2481

Met Ser Tyr Leu Gly Ser Leu Phe Val Phe Glu Cys Leu Val Phe Ile

1	5	10	15
Glu Pro Tyr Ser Leu Arg Arg Trp Asn Ile Trp Lys Asn Phe Lys Thr			
20	25	30	
Ile Lys Ile Leu Lys Gln Ser Trp Gln Thr Lys Thr Ser Thr Ser Val			
35	40	45	
His Asp Cys Ile Ile Thr Ile Ile Val Pro Leu His Ile Met Phe Phe			
50	55	60	
Phe Leu Arg Gln Lys Arg Cys Leu Lys Thr Lys Asn Cys Ala Glu Lys			
65	70	75	80
Val Cys Pro Thr Tyr Leu Trp Tyr Met Ile Gly Tyr Ile Lys Gly Arg			
85	90	95	
Tyr Trp Leu Asn			
100			

&lt;210&gt; 2482

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2482

Met Ile Leu Ser Leu Phe Tyr Val Leu Leu Cys His Leu Asp Ile Leu			
1	5	10	15
Phe Gly Asp Thr Ser Ser Lys Ile Phe Cys Ser Phe Trp Ala Val Val			
20	25	30	
Thr Leu Val Leu Ser Phe Asp Ser Pro Phe Tyr Ile Leu Asp Thr Ser			
35	40	45	
Phe Ile Arg Tyr Pro Phe Cys Lys Ala Cys Asn Leu Ser Phe Tyr Phe			
50	55	60	
Phe Asn Ser Ile Phe Gln Lys Gln Lys Phe Ser Met Leu Met Lys Leu			
65	70	75	80
Ser Leu Ser Ser Phe Ser Phe Met Tyr Cys Val Phe Gly Ile Val Ser			
85	90	95	
Lys Thr Ser Leu Pro Glu Met Arg Ser Cys Met Val			
100	105		

&lt;210&gt; 2483

&lt;211&gt; 205

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2483

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Met Met Ser Ser Ser Thr Ala His Trp His Gln Trp Ser Val Ile Val
  1             5             10             15
Ser Asn Arg Gly Ala Trp Gln Gly Lys Ala Phe Leu Pro Pro Ser Met
      20             25             30
Pro Val Ser Glu Gly Leu Asn Ile Gln Asp Ser Ser Pro Gly Trp Gly
      35             40             45
Pro Glu Pro Trp Tyr Trp Thr Leu Thr Arg Thr Pro Met Cys Gln Ser
      50             55             60
Thr Ser His His Ala His Thr Gln Gly Leu Gly Leu Ser Lys Cys Pro
      65             70             75             80

Ala Ala Pro Glu Val Ser Ser Pro Asp Leu Gly Ser Gly Ser Ala Ala
      85             90             95
Asp Lys Ser Pro Ala Ser Arg Pro Ala Trp Thr Lys Pro Glu Leu Phe
      100            105            110
Arg Ser Leu Lys Arg Leu Leu His Ser Pro Thr Pro Arg Thr Asp Gln
      115            120            125
Arg Gly Arg Gly Cys Arg Trp Arg Glu Arg Arg Val Glu Ser Gly Ala
      130            135            140
Arg Gly Trp Lys Arg Leu Cys Arg Leu Cys Cys Pro Cys Arg Trp Ser
      145            150            155            160
Trp Phe Thr Leu Ser Pro Ala Phe Pro Pro Pro Glu Thr Ala His His
      165            170            175
Cys Gln Ile Glu Ser Lys Asn Pro Thr Pro Asn Lys Asp Glu Ala Thr
      180            185            190
Leu Ala Phe Thr Pro Arg Phe Phe Arg Phe Leu Gly Leu
      195            200            205

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&lt;210&gt; 2484

&lt;211&gt; 259

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2484

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Met Lys Asp Leu Gly Asn Pro Val Leu Asp Glu Glu Gly Val Ala Gln
 1             5             10             15
Arg Glu Glu Ser Ala Gln Gly Thr Pro Ile Leu Gly Asp Gly Ala Thr
      20             25             30
Gly Ala Ser Pro Arg Leu Lys Gly Glu Arg Gly Ser Arg Pro Ala Cys
      35             40             45
Arg Ser Gly Arg Arg Ile Gly Leu Pro Ser Gly Trp Gly Gly Ser Lys
      50             55             60
Pro Thr Ile Ala Ala Leu Gly Gly Gly Gly Ala Leu Gln Gly Pro Ala
      65             70             75             80
Ala Pro Ser Gly Pro Leu Pro Pro His Arg Arg Phe Tyr Asp Ser Gly
      85             90             95
Ala Ile Met Leu Arg Asp Glu Ala Thr Ile Leu Thr Gly Met Leu Ile
      100            105            110
Gly Leu Ser Ala Ile Asp Phe Ser Phe Cys Leu Lys Gly Glu Val Leu
      115            120            125
Asp Gly Lys Thr Pro Val Val Ile Asp Tyr Thr Pro Tyr Leu Lys Phe
      130            135            140
Thr Gln Ser Tyr Asp Tyr Leu Thr Asp Glu Glu Glu Arg His Ser Ala
      145            150            155            160
Glu Ser Ser Thr Ser Glu Asp Asn Ser Pro Glu His Pro Tyr Leu Pro
      165            170            175
Leu Val Thr Asp Glu Asp Ser Trp Tyr Ser Lys Trp His Lys Met Glu
      180            185            190
Gln Lys Phe Arg Ile Val Tyr Ala Gln Lys Gly Tyr Leu Glu Glu Leu
      195            200            205
Val Arg Leu Arg Glu Ser Gln Leu Lys Asp Leu Glu Ala Glu Asn Arg
      210            215            220
Arg Leu Gln Leu Gln Leu Glu Glu Ala Ala Ala Gln Asn Gln Arg Glu
      225            230            235            240

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Lys Arg Glu Leu Glu Gly Val Ile Leu Glu Leu Gln Glu Gln Leu Ser  
                           245                          250                          255  
 Asp Pro Gln

<210> 2485

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2485

Met His Gly Ser Lys Trp Leu Asp Ser Trp Val Gly Trp Gly Ser Gln  
       1                          5                          10                          15  
 Ser Arg Leu Pro Glu Gly Leu Glu Val Thr Pro Pro Gly Gly Asp Gly  
                           20                          25                          30  
 Ser Ser Gln Val Gly Cys His Gln Ser Arg Gln His Cys Leu Leu Gly  
                           35                          40                          45  
 Thr Pro Gly Glu Ala Asp Arg Val Ser Gly Phe Gln Leu Gly Gly Ser  
                           50                          55                          60  
 Pro Ala Glu Asn Pro Val Lys Pro Ala Phe His Ser Ser Pro Val Cys  
                           65                          70                          75                          80  
 Pro Glu Pro Gly Leu Arg Ala Ala Leu Cys Met Pro Ala Leu Pro Thr  
                           85                          90                          95  
 Trp Gln Ser Ser Gly Gly Arg Thr Pro Arg Leu Ser Gly Asp Ser Gln  
                           100                          105                          110  
 Ala Asn Val Ser Ile Pro Gly Ser Ala Leu Ser Cys His Glu Phe Arg  
                           115                          120                          125  
 Lys Ala Glu Ala Ala Gln Gln Met Gly Thr Arg Gly Arg Thr Ala Ile  
                           130                          135                          140  
 His Ser Leu Ser Ser His Pro Gln Ala Cys Arg Ala Pro Gly Leu Trp  
                           145                          150                          155                          160  
 Cys

&lt;210&gt; 2486

&lt;211&gt; 423

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2486

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Met Lys Arg Asn Gly Ser Arg Asn Cys Leu Asn Arg Arg Ser Arg Phe
  1             5             10             15
Gly Ser Arg Glu Arg Asp Trp Leu Arg Glu Asp Val Lys Arg Gly Cys
          20             25             30
Val Tyr Leu Tyr Gly Ala Asp Thr Thr Thr Ala Thr Thr Thr Thr Thr
          35             40             45
Thr Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Ser Asp Leu His Leu
          50             55             60
Val Leu Cys Thr Val Glu Thr Pro Ala Ser Glu Ile Cys Ala Gly Glu
          65             70             75             80
Gly Arg Glu Ser Leu Tyr Leu Gln Leu His Gly Asp Leu Val Arg Arg
          85             90             95
Leu Glu Pro Thr Glu Arg Pro Leu Gln Ile Val Tyr Asp Tyr Leu Ser
          100            105            110
Arg Leu Gly Phe Asp Asp Pro Val Arg Ile Gln Glu Glu Ala Thr Asn
          115            120            125
Pro Asp Leu Gly Cys Met Ile Arg Phe Tyr Gly Glu Lys Pro Cys His
          130            135            140
Met Asp Arg Leu Asp Arg Ile Leu Leu Ser Gly Ile Tyr Asn Val Arg
          145            150            155            160
Lys Gly Lys Thr Gln Leu His Lys Trp Ala Glu Arg Leu Val Val Leu
          165            170            175
Cys Gly Thr Cys Leu Ile Val Ser Ser Val Lys Asp Cys Gln Thr Gly
          180            185            190
Lys Met His Ile Leu Pro Leu Val Gly Gly Lys Ile Glu Glu Val Lys
          195            200            205
Arg Arg Gln Tyr Ser Leu Ala Phe Ser Ser Ala Gly Ala Gln Ala Gln
          210            215            220
Thr Tyr His Val Ser Phe Glu Thr Leu Ala Glu Tyr Gln Arg Trp Gln
          225            230            235            240

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&lt;211&gt; 104

<213> Homo sapiens

Met Lys Ser Tyr Pro Ser Cys His Trp Trp Ile Met Phe Leu Val Ser  
1 5 10 15  
Cys Leu Gly Thr Leu Thr Pro Gly His Glu Glu Phe Phe Phe Phe Leu  
20 25 30



Phe	Leu	Thr	His	Ile	Leu	Thr	Leu	Ser	Pro	Arg	Leu	Gly	Cys	Ser	Gly
35				40				45							
Thr	Ile	Ser	Thr	His	Cys	Asn	Leu	Cys	Leu	Leu	Gly	Ser	Ser	Asp	Ser
50				55				60							
Cys	Ala	Ser	Val	Ser	Gln	Val	Ala	Gly	Thr	Thr	Gly	Val	His	His	His
65				70				75				80			
Ser	Gln	Pro	Ile	Phe	Phe	Leu	Phe	Phe	Ile	Phe	Ser	Arg	Val	Gly	Ile
85				90				95							
Ser	Pro	Tyr	Arg	Leu	Gly	Trp	Ser								
100															

<210> 2488

&lt;211&gt; 879

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2488

Met	Asn	Pro	Ile	Thr	Gln	Ser	Gln	Phe	Val	Pro	Leu	Gly	Glu	Val	Leu
1				5					10					15	
Cys	Cys	Ala	Ile	Ser	Asp	Met	Asn	Thr	Ala	Gln	Ile	Val	Val	Thr	Gln
			20					25					30		
Glu	Ser	Leu	Leu	Glu	Arg	Leu	Met	Lys	His	Tyr	Pro	Gly	Ile	Ala	Ile
		35					40					45			
Pro	Ser	Glu	Asp	Ile	Leu	Tyr	Thr	Thr	Leu	Gly	Thr	Leu	Ile	Lys	Glu
	50					55				60					
Arg	Lys	Ile	Tyr	His	Thr	Gly	Glu	Gly	Tyr	Phe	Ile	Val	Thr	Pro	Gln
65					70					75					80
Thr	Tyr	Phe	Ile	Thr	Asn	Thr	Thr	Thr	Gln	Glu	Asn	Lys	Arg	Met	Leu
			85						90				95		
Pro	Ser	Asp	Glu	Ser	Arg	Leu	Met	Pro	Ala	Ser	Met	Thr	Tyr	Leu	Val
		100						105				110			
Ser	Met	Glu	Ser	Cys	Ala	Glu	Ser	Ala	Gln	Glu	Asn	Ala	Ala	Pro	Ile
	115							120				125			
Ser	His	Cys	Gln	Ser	Cys	Gln	Cys	Phe	Arg	Asp	Met	His	Thr	Gln	Asp
130						135					140				

Val Gln Glu Ala Pro	Val Ala Ala Glu Val	Thr Arg Lys Ser His Arg
145	150	155 160
Gly Leu Gly Glu Ser Val	Ser Trp Val Gln Asn Gly Ala Val Ser Val	
165	170	175
Ser Ala Glu His His Ile Cys Glu Ser Thr Lys Pro Leu Pro Tyr Thr		
180	185	190
Arg Asp Lys Glu Lys Gly Lys Lys Phe Gly Phe Ser Leu Leu Trp Arg		
195	200	205
Ser Leu Ser Arg Lys Glu Lys Pro Lys Thr Glu His Ser Ser Phe Ser		
210	215	220
Ala Gln Phe Pro Pro Glu Glu Trp Pro Val Arg Asp Glu Asp Asp Leu		
225	230	235 240
Asp Asn Ile Pro Arg Asp Val Glu His Glu Ile Ile Lys Arg Ile Asn		
245	250	255
Pro Ile Leu Thr Val Asp Asn Leu Ile Lys His Thr Val Leu Met Gln		
260	265	270
Lys Tyr Glu Glu Gln Lys Lys Tyr Asn Ser Gln Gly Thr Ser Thr Asp		
275	280	285
Met Leu Thr Ile Gly His Lys Tyr Pro Ser Lys Glu Gly Val Lys Lys		
290	295	300
Arg Gln Gly Leu Ser Ala Lys Pro Gln Gly Gln Gly His Ser Arg Arg		
305	310	315 320
Asp Arg His Lys Ala Arg Asn Gln Gly Ser Glu Phe Gln Pro Gly Ser		
325	330	335
Ile Arg Leu Glu Lys His Pro Lys Leu Pro Ala Thr Gln Pro Ile Pro		
340	345	350
Arg Ile Lys Ser Pro Asn Glu Met Val Gly Gln Lys Pro Leu Gly Glu		
355	360	365
Ile Thr Thr Val Leu Gly Ser His Leu Ile Tyr Lys Lys Arg Ile Ser		
370	375	380
Asn Pro Phe Gln Gly Leu Ser His Arg Gly Ser Thr Ile Ser Lys Gly		
385	390	395 400
His Lys Ile Gln Lys Thr Ser Asp Leu Lys Pro Ser Gln Thr Gly Pro		
405	410	415
Lys Glu Lys Pro Phe Gln Lys Pro Arg Ser Leu Asp Ser Ser Arg Ile		
420	425	430



Gly Phe Asn Tyr Glu Glu Glu Pro Ser Val Ala Lys Cys Val Gln Ala  
                     725                    730                    735  
 Ser Ala Pro Ala Asp Glu Arg Ile Phe Asp Tyr Tyr Ser Ala Arg Lys  
                     740                    745                    750  
 Ala Ser Phe Glu Ala Glu Val Ile Gln Asp Thr Ile Gly Asp Thr Gly  
                     755                    760                    765  
 Lys Lys Pro Ala Ser Trp Ser Gln Ser Pro Gln Asn Gln Glu Met Arg  
                     770                    775                    780  
 Lys His Phe Pro Gln Lys Phe Gln Leu Phe Asn Thr Ser His Met Pro  
 785                    790                    795                    800  
 Val Leu Ala Gln Asp Val Gln Tyr Glu His Ser His Leu Glu Gly Thr  
                     805                    810                    815  
 Glu Asn His Ser Met Ala Gly Asp Ser Gly Ile Asp Ser Pro Arg Thr  
                     820                    825                    830  
 Gln Ser Leu Gly Ser Asn Asn Ser Val Ile Leu Asp Gly Leu Lys Arg  
                     835                    840                    845  
 Arg Gln Asn Phe Leu Gln Asn Val Glu Gly Thr Lys Ser Ser Gln Pro  
                     850                    855                    860  
 Leu Thr Ser Asn Ser Leu Leu Pro Leu Thr Pro Val Ile Asn Val  
 865                    870                    875

<210> 2489

<211> 636

<212> PRT

<213> Homo sapiens

<400> 2489

Met Phe Arg Lys Lys Lys Lys Lys Arg Pro Glu Ile Ser Ala Pro Gln  
   1                    5                    10                    15  
 Asn Phe Gln His Arg Val His Thr Ser Phe Asp Pro Lys Glu Gly Lys  
                     20                    25                    30  
 Phe Val Gly Leu Pro Pro Gln Trp Gln Asn Ile Leu Asp Thr Leu Arg  
                     35                    40                    45  
 Arg Pro Lys Pro Val Val Asp Pro Ser Arg Ile Ala Arg Val Gln Leu  
                     50                    55                    60

Gln Pro Met Lys Thr Val Val Arg Gly Ser Ala Met Pro Val Asp Gly  
 65 70 75 80  
 Tyr Ile Ser Gly Leu Leu Asn Asp Ile Gln Lys Leu Ser Val Ile Ser  
 85 90 95  
 Ser Asn Thr Leu Arg Gly Arg Ser Pro Thr Ser Arg Arg Arg Ala Gln  
 100 105 110  
 Ser Leu Gly Leu Leu Gly Asp Glu His Trp Ala Thr Asp Pro Asp Met  
 115 120 125  
 Tyr Leu Gln Ser Pro Gln Ser Glu Arg Thr Asp Pro His Gly Leu Tyr  
 130 135 140  
 Leu Ser Cys Asn Gly Gly Thr Pro Ala Gly His Lys Gln Met Pro Trp  
 145 150 155 160  
 Pro Glu Pro Gln Ser Pro Arg Val Leu Pro Asn Gly Leu Ala Ala Lys  
 165 170 175  
 Ala Gln Ser Leu Gly Pro Ala Glu Phe Gln Gly Ala Ser Gln Arg Cys  
 180 185 190  
 Leu Gln Leu Gly Ala Cys Leu Gln Ser Ser Pro Pro Gly Ala Ser Pro  
 195 200 205  
 Pro Thr Gly Thr Asn Arg His Gly Met Lys Ala Ala Lys His Gly Ser  
 210 215 220  
 Glu Glu Ala Arg Pro Gln Ser Cys Leu Val Gly Ser Ala Thr Gly Arg  
 225 230 235 240  
 Pro Gly Gly Glu Gly Ser Pro Ser Pro Lys Thr Arg Glu Ser Ser Leu  
 245 250 255  
 Lys Arg Arg Leu Phe Arg Ser Met Phe Leu Ser Thr Ala Ala Thr Ala  
 260 265 270  
 Pro Pro Ser Ser Ser Lys Pro Gly Pro Pro Pro Gln Ser Lys Pro Asn  
 275 280 285  
 Ser Ser Phe Arg Pro Pro Gln Lys Asp Asn Pro Pro Ser Leu Val Ala  
 290 295 300  
 Lys Ala Gln Ser Leu Pro Ser Asp Gln Pro Val Gly Thr Phe Ser Pro  
 305 310 315 320  
 Leu Thr Thr Ser Asp Thr Ser Ser Pro Gln Lys Ser Leu Arg Thr Ala  
 325 330 335  
 Pro Ala Thr Gly Gln Leu Pro Gly Arg Ser Ser Pro Ala Gly Ser Pro  
 340 345 350

Arg Thr Trp His Ala Gln Ile Ser Thr Ser Asn Leu Tyr Leu Pro Gln  
 355 360 365  
 Asp Pro Thr Val Ala Lys Gly Ala Leu Ala Gly Glu Gly Thr Gly Val  
 370 375 380  
 Val Thr His Glu Gln Phe Lys Ala Ala Leu Arg Met Val Val Asp Gln  
 385 390 395 400  
 Gly Asp Pro Arg Leu Leu Leu Asp Ser Tyr Val Lys Ile Gly Glu Gly  
 405 410 415  
 Ser Thr Gly Ile Val Cys Leu Ala Arg Glu Lys His Ser Gly Arg Gln  
 420 425 430  
 Val Ala Val Lys Met Met Asp Leu Arg Lys Gln Gln Arg Arg Glu Leu  
 435 440 445  
 Leu Phe Asn Glu Val Val Ile Met Arg Asp Tyr Gln His Phe Asn Val  
 450 455 460  
 Val Glu Met Tyr Lys Ser Tyr Leu Val Gly Glu Glu Leu Trp Val Leu  
 465 470 475 480  
 Met Glu Phe Leu Gln Gly Gly Ala Leu Thr Asp Ile Val Ser Gln Val  
 485 490 495  
 Arg Leu Asn Glu Glu Gln Ile Ala Thr Val Cys Glu Ala Val Leu Gln  
 500 505 510  
 Ala Leu Ala Tyr Leu His Ala Gln Gly Val Ile His Arg Asp Ile Lys  
 515 520 525  
 Ser Asp Ser Ile Leu Leu Thr Leu Asp Gly Arg Val Lys Leu Ser Asp  
 530 535 540  
 Phe Gly Phe Cys Ala Gln Ile Ser Lys Asp Val Pro Lys Arg Lys Ser  
 545 550 555 560  
 Leu Val Gly Thr Pro Tyr Trp Met Ala Pro Glu Val Ile Ser Arg Ser  
 565 570 575  
 Leu Tyr Ala Thr Glu Val Ser Pro Val Leu Arg Asp Phe Leu Glu Arg  
 580 585 590  
 Met Leu Val Arg Asp Pro Gln Glu Arg Ala Thr Ala Gln Glu Leu Leu  
 595 600 605  
 Asp His Pro Phe Leu Leu Gln Thr Gly Leu Pro Glu Cys Leu Val Pro  
 610 615 620  
 Leu Ile Gln Leu Tyr Arg Lys Gln Thr Ser Thr Cys  
 625 630 635

<210> 2490

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2490

```

Met His Ala Asp Glu Tyr Ala Ser Trp Val Phe Thr Arg Ser Ser Trp
  1              5              10              15
Glu Ala Ser Ser Val Ser Gln Ala His Arg Leu Cys Ala Arg Glu Gly
              20              25              30
Glu His Leu Ser Leu Gly Thr Ala Phe Val Pro Ala Tyr Arg Pro Pro
              35              40              45
Gln Glu Pro Ala Ser Trp Leu Pro Ser His Arg Pro Pro Ala Gly Leu
              50              55              60
Thr Tyr Ala Ser Phe Cys Arg Arg Gln Ala His Phe Ser Pro Val Thr
              65              70              75              80
Asn Met Glu Leu Arg Val Lys Glu Gly Ser Cys Thr His Leu Leu Ile
              85              90              95
His Leu Phe Thr His Leu Leu Thr His Gln Ser Phe Leu Gln Gln
              100              105              110

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<210> 2491

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2491

```

Met Leu Ala Pro Gly Ser Ser Pro Gly Gln Arg Gly Arg Leu Ala Leu
  1              5              10              15
Gln Trp Arg Gln Val Ser Trp Ile Thr Cys Trp Ile Ala Leu Tyr Ala
              20              25              30
Val Glu Ala Leu Pro Thr Cys Pro Phe Ser Cys Lys Cys Asp Ser Arg
              35              40              45

```

Ser Leu Glu Val Asp Cys Ser Gly Leu Gly Leu Thr Thr Val Pro Pro  
 50 55 60  
 Asp Val Pro Ala Ala Thr Arg Thr Leu Leu Leu Leu Asn Asn Lys Leu  
 65 70 75 80  
 Ser Ala Leu Pro Ser Trp Ala Phe Ala Asn Leu Ser Ser Leu Gln Arg  
 85 90 95  
 Leu Asp Leu Ser Asn Asn Phe Leu Asp Arg Leu Pro Arg Ser Ile Phe  
 100 105 110  
 Gly Asp Leu Thr Asn Leu Thr Glu Leu Gln Leu Arg Asn Asn Ser Ile  
 115 120 125  
 Arg Thr Leu Asp Arg Asp Leu Leu Arg His Ser Pro Leu Leu Arg His  
 130 135 140  
 Leu Asp Leu Ser Ile Asn Gly Leu Ala Gln Leu Pro Pro Gly Leu Phe  
 145 150 155 160  
 Asp Gly Leu Leu Ala Leu Arg Ser Leu Ser Leu Arg Ser Asn Arg Leu  
 165 170 175  
 Gln Asn Leu Asp Arg Leu Thr Phe Glu Pro Leu Ala Asn Leu Gln Leu  
 180 185 190  
  
 Leu Gln Val Gly Asp Asn Pro Trp Glu Cys Asp Cys Asn Leu Arg Glu  
 195 200 205  
 Phe Lys His Trp Met Glu Trp Phe Ser Tyr Arg Gly Gly Arg Leu Asp  
 210 215 220  
 Gln Leu Ala Cys Thr Leu Pro Lys Glu Leu Arg Gly Lys Asp Met Arg  
 225 230 235 240  
 Met Val Pro Met Glu Met Phe Asn Tyr Cys Ser Gln Leu Glu Asp Glu  
 245 250 255  
 Asn Ser Ser Ala Gly Leu Asp Ile Pro Gly Pro Pro Cys Thr Lys Ala  
 260 265 270  
 Ser Pro Glu Pro Ala Lys Pro Lys Pro Gly Ala Glu Pro Glu Pro Glu  
 275 280 285  
 Pro Ser Thr Ala Cys Pro Gln Lys Gln Arg His Arg Pro Ala Ser Val  
 290 295 300  
 Arg Arg Ala Met Gly Thr Val Ile Ile Ala Gly Val Val Cys Gly Val  
 305 310 315 320  
 Val Cys Ile Met Met Val Val Ala Ala Ala Tyr Gly Cys Ile Tyr Ala



325 330 335  
 Ser Leu Met Ala Lys Tyr His Arg Glu Leu Lys Lys Arg Gln Pro Leu  
 340 345 350  
 Met Gly Asp Pro Glu Gly Glu His Glu Asp Gln Lys Gln Ile Ser Ser  
 355 360 365  
 Val Ala  
 370

<210> 2492

<211> 158

<212> PRT

<213> Homo sapiens

<400> 2492

Met Glu Lys Gly Leu Arg Arg Thr Gln Gln Cys Gly Ser Ala Thr Ala  
 1 5 10 15  
 Gly Asn His Glu Thr Glu Thr Ala Arg Trp Arg Gln Pro Asp Thr Lys  
 20 25 30  
 Leu Gly Thr Gln Thr Pro Arg Phe Pro Pro Trp Pro His Pro Trp Ala  
 35 40 45  
 Lys Ser Asn Ser Glu Pro Ser Ser Ser Ile Ser Phe Asn Pro His  
 50 55 60  
 Arg Gly Cys Leu Leu Phe Thr Ala Val Glu Val Arg Val Gly Val Gly  
 65 70 75 80  
 Gly Met Leu Phe Ser Cys Arg Leu Ser Ser Trp Asp Glu Glu Thr Ser  
 85 90 95  
 Ser Leu Leu Gly Leu Ala Gly Pro Ala Lys Gln Met His Thr Leu Thr  
 100 105 110  
 Thr Ala Gln Gly Leu Arg Gln Val Cys Ser Leu Ser Lys Thr Cys Pro  
 115 120 125  
  
 Gly Phe Ser Lys Gly Lys Ser Ile Arg Lys Arg Met Glu Asn Leu Tyr  
 130 135 140  
 Ser Phe Ile Leu Leu Pro Ser Asn Gly His Ser Pro Met Tyr  
 145 150 155

&lt;210&gt; 2493

&lt;211&gt; 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2493

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Met Ala Asp Val Pro His Pro Thr Lys Leu Glu His Pro Arg Ser Thr
  1              5              10              15
Ser Asp Cys Cys Pro Ser Ser Glu Asn Phe Lys Pro Val Asp Phe Arg
              20              25              30
Leu Leu Gly Ser Val Gly Val Gly Pro Thr Asp Pro Asp His Leu Ala
              35              40              45
Pro Trp Leu Gln Pro Pro Phe Gln Glu Ser Glu Arg Phe Cys His Thr
              50              55              60
Gly Ile Pro Gly Ala Thr Gly Val Leu Arg Lys Lys Gln Lys Gln Lys
              65              70              75              80
Leu Leu Gln Leu Ala Gln Cys Leu Pro Lys Gln Pro Pro Cys Phe Val
              85              90              95
Leu Glu Thr Gln Asn His Gly Gly Ile Asp Thr Trp Ser Trp Ser Ala
              100             105             110
Ser Cys Lys Asp Arg Gly Lys Ser Thr Val Ser Glu Pro Glu Cys Thr
              115             120             125
Val Pro Pro Gly Thr Leu Ser His Ser Phe Pro Trp Leu Gly Lys Gly
              130             135             140
Asp Pro Pro Thr Pro Cys Thr Ser Gln Val Arg Arg
              145             150             155

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&lt;210&gt; 2494

&lt;211&gt; 919

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2494

Met	Ala	Pro	Ser	Arg	Phe	Arg	Thr	Gln	Leu	Glu	Leu	Val	Ser	Asn	Val
1				5				10					15		
Leu	Ile	Phe	Ser	Cys	Thr	Asn	Ile	Val	Gly	Val	Cys	Thr	His	Tyr	Pro
			20					25					30		
Ala	Glu	Val	Ser	Gln	Arg	Gln	Ala	Phe	Gln	Glu	Thr	Arg	Glu	Cys	Ile
			35					40					45		
Gln	Ala	Arg	Leu	His	Ser	Gln	Arg	Glu	Asn	Gln	Gln	Gln	Glu	Arg	Leu
			50					55					60		
Leu	Leu	Ser	Val	Leu	Pro	Arg	His	Val	Ala	Met	Glu	Met	Lys	Ala	Asp
65						70					75				80
Ile	Asn	Ala	Lys	Gln	Glu	Asp	Met	Met	Phe	His	Lys	Ile	Tyr	Ile	Gln
				85							90				95
Lys	His	Asp	Asn	Val	Ser	Ile	Leu	Phe	Ala	Asp	Ile	Glu	Gly	Phe	Thr
				100							105				110
Ser	Leu	Ala	Ser	Gln	Cys	Thr	Ala	Gln	Glu	Leu	Val	Met	Thr	Leu	Asn
			115					120					125		
Glu	Leu	Phe	Ala	Arg	Phe	Asp	Lys	Leu	Ala	Ala	Glu	Asn	His	Cys	Leu
			130					135					140		
Arg	Ile	Lys	Ile	Leu	Gly	Asp	Cys	Tyr	Tyr	Cys	Val	Ser	Gly	Leu	Pro
145						150					155				160
Glu	Ala	Arg	Ala	Asp	His	Ala	His	Cys	Cys	Val	Glu	Met	Gly	Met	Asp
				165							170				175
Met	Ile	Glu	Ala	Ile	Ser	Leu	Val	Arg	Glu	Val	Thr	Gly	Val	Asn	Val
				180							185				190
Asn	Met	Arg	Val	Gly	Ile	His	Ser	Gly	Arg	Val	His	Cys	Gly	Val	Leu
			195					200					205		
Gly	Leu	Arg	Lys	Trp	Gln	Phe	Asp	Val	Trp	Ser	Asn	Asp	Val	Thr	Leu
			210					215					220		
Ala	Asn	His	Met	Glu	Ala	Gly	Gly	Lys	Ala	Gly	Arg	Ile	His	Ile	Thr
225						230					235				240
Lys	Ala	Thr	Leu	Asn	Tyr	Leu	Asn	Gly	Asp	Tyr	Glu	Val	Glu	Pro	Gly
				245							250				255
Cys	Gly	Gly	Glu	Arg	Asn	Ala	Tyr	Leu	Lys	Glu	His	Ser	Ile	Glu	Thr
				260							265				270
Phe	Leu	Ile	Leu	Arg	Cys	Thr	Gln	Lys	Arg	Lys	Glu	Glu	Lys	Ala	Met
				275							280				285

Ile Ala Lys Met Asn Arg Gln Arg Thr Asn Ser Ile Gly His Asn Pro  
 290 295 300  
 Pro His Trp Gly Ala Glu Arg Pro Phe Tyr Asn His Leu Gly Gly Asn  
 305 310 315 320  
 Gln Val Ser Lys Glu Met Lys Arg Met Gly Phe Glu Asp Pro Lys Asp  
 325 330 335  
 Lys Asn Ala Gln Glu Ser Ala Asn Pro Glu Asp Glu Val Asp Glu Phe  
 340 345 350  
 Leu Gly Arg Ala Ile Asp Ala Arg Ser Ile Asp Arg Leu Arg Ser Glu  
 355 360 365  
 His Val Arg Lys Phe Leu Leu Thr Phe Arg Glu Pro Asp Leu Glu Lys  
 370 375 380  
 Lys Tyr Ser Lys Gln Val Asp Asp Arg Phe Gly Ala Tyr Val Ala Cys  
 385 390 395 400  
 Ala Ser Leu Val Phe Leu Phe Ile Cys Phe Val Gln Ile Thr Ile Val  
 405 410 415  
 Pro His Ser Ile Phe Met Leu Ser Phe Tyr Leu Thr Cys Ser Leu Leu  
 420 425 430  
 Leu Thr Leu Val Val Phe Val Ser Val Ile Tyr Ser Cys Val Lys Leu  
 435 440 445  
 Phe Pro Ser Pro Leu Gln Thr Leu Ser Arg Lys Ile Val Arg Ser Lys  
 450 455 460  
 Met Asn Ser Thr Leu Val Gly Val Phe Thr Ile Thr Leu Val Phe Leu  
 465 470 475 480  
 Ala Ala Phe Val Asn Met Phe Thr Cys Asn Ser Arg Asp Leu Leu Gly  
 485 490 495  
 Cys Leu Ala Gln Glu His Asn Ile Ser Ala Ser Gln Val Asn Ala Cys  
 500 505 510  
 His Val Ala Glu Ser Ala Val Asn Tyr Ser Leu Gly Asp Glu Gln Gly  
 515 520 525  
 Phe Cys Gly Ser Pro Trp Pro Asn Cys Asn Phe Pro Glu Tyr Phe Thr  
 530 535 540  
 Tyr Ser Val Leu Leu Ser Leu Leu Ala Cys Ser Val Phe Leu Gln Ile  
 545 550 555 560  
 Ser Cys Ile Gly Lys Leu Val Leu Met Leu Ala Ile Glu Leu Ile Tyr  
 565 570 575

Val Leu Ile Val Glu Val Pro Gly Val Thr Leu Phe Asp Asn Ala Asp  
 580 585 590  
 Leu Leu Val Thr Ala Asn Ala Ile Asp Phe Phe Asn Asn Gly Thr Ser  
 595 600 605  
 Gln Trp Ser Leu Cys Glu Asn Leu Arg His Arg Arg Met Glu Ala Gly  
 610 615 620  
 Thr Tyr Phe Pro Ser Gly Val Lys Glu Gln Ser Pro Glu His Ala Thr  
 625 630 635 640  
 Lys Val Ala Leu Lys Val Val Thr Pro Ile Ile Ile Ser Val Phe Val  
 645 650 655  
 Leu Ala Leu Tyr Leu His Ala Gln Gln Val Glu Ser Thr Ala Arg Leu  
 660 665 670  
 Asp Phe Leu Trp Lys Leu Gln Ala Thr Glu Glu Lys Glu Glu Met Glu  
 675 680 685  
 Glu Leu Gln Ala Tyr Asn Arg Arg Leu Leu His Asn Ile Leu Pro Lys  
 690 695 700  
 Asp Val Ala Ala His Phe Leu Ala Arg Glu Arg Arg Asn Asp Glu Leu  
 705 710 715 720  
 Tyr Tyr Gln Ser Cys Glu Cys Val Ala Val Met Phe Ala Ser Ile Ala  
 725 730 735  
 Asn Phe Ser Glu Phe Tyr Val Glu Leu Glu Ala Asn Asn Glu Gly Val  
 740 745 750  
 Glu Cys Leu Arg Leu Leu Asn Glu Ile Ile Ala Asp Phe Asp Glu Ile  
 755 760 765  
 Ile Ser Glu Asp Arg Phe Arg Gln Leu Glu Lys Ile Lys Thr Ile Gly  
 770 775 780  
 Ser Thr Tyr Met Ala Ala Ser Gly Leu Asn Asp Ser Thr Tyr Asp Lys  
 785 790 795 800  
 Val Gly Lys Thr His Ile Lys Ala Leu Ala Asp Phe Ala Met Lys Leu  
 805 810 815  
 Met Asp Gln Met Lys Tyr Ile Asn Glu His Ser Phe Asn Asn Phe Gln  
 820 825 830  
 Met Lys Ile Gly Leu Asn Ile Gly Pro Val Val Ala Gly Val Ile Gly  
 835 840 845  
 Ala Arg Lys Pro Gln Tyr Asp Ile Trp Gly Asn Thr Val Asn Val Ala  
 850 855 860

Ser Arg Met Asp Ser Thr Gly Val Pro Asp Arg Ile Gln Val Thr Thr  
 865                                870                                875                                880  
 Asp Met Tyr Gln Val Leu Ala Ala Asn Thr Tyr Gln Leu Glu Cys Arg  
                                   885                                890                                895  
 Gly Val Val Lys Val Lys Gly Lys Gly Glu Met Met Thr Tyr Phe Leu  
                                   900                                905                                910  
 Asn Gly Gly Pro Pro Leu Ser  
                                   915

<210> 2495

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2495

Met Gly Tyr Val Arg Glu Tyr Ile Leu Trp Ala Ala Ser Lys Ser Gln  
   1                                5                                10                                15  
 Leu Leu Ala His Gln Phe Ile Trp Asn Met Lys Thr Asn Ile Tyr Leu  
                                   20                                25                                30  
 Asp Glu Glu Gly His Gln Lys Asp Pro Asp Ile Gly Asp Leu Leu Asp  
                                   35                                40                                45  
 Gln Leu Val Glu Glu Ile Thr Gly Ser Leu Ser Gly Pro Ala Lys Asp  
                                   50                                55                                60  
 Phe Tyr Gln Arg Glu Phe Asp Phe Phe Asn Lys Ile Thr Asn Val Ser  
   65                                70                                75                                80  
 Ala Ile Ile Lys Pro Tyr Pro Lys Gly Asp Glu Arg Lys Lys Ala Cys  
                                   85                                90                                95  
 Leu Ser Ala Leu Ser Glu Val Lys Val Gln Pro Gly Cys Tyr Leu Pro  
                                   100                                105                                110  
 Ser Asn Pro Glu Ala Ile Val Leu Asp Ile Asp Tyr Lys Ser Gly Thr  
                                   115                                120                                125  
 Pro Met Gln Ser Ala Ala Lys Ala Pro Tyr Leu Ala Lys Phe Lys Val  
                                   130                                135                                140  
 Lys Arg Cys Gly Val Ser Glu Leu Glu Lys Glu Gly Leu Arg Cys Arg  
   145                                150                                155                                160

Ser Asp Ser Glu Asp Glu Cys Ser Thr Gln Glu Ala Asp Gly Gln Lys  
                   165                  170                  175  
 Ile Ser Trp Gln Ala Ala Ile Phe Lys Val Gly Asp Asp Cys Arg Gln  
                   180                  185                  190  
 Val Ser Arg Val Arg Pro Arg Val Gly Leu Gly Thr Gly Leu Ala Ala  
                   195                  200                  205  
 Pro Gln Gly Ser Arg Pro Ala Arg Val Gln Ser His Met Gln Lys Cys  
                   210                  215                  220  
 Glu Ser Phe Pro Ser Leu Ile Trp Phe Arg Cys His Gly Val Asn  
 225                  230                  235

<210> 2496

<211> 206

<212> PRT

<213> Homo sapiens

<400> 2496

Met Pro Pro Ala Leu Ser Ser Arg Ser Cys Thr Glu Leu Gly Ala Thr  
   1                  5                  10                  15  
 Ser Cys Thr Glu Thr Ser Arg Val Ala Arg Ser Cys Thr Thr Gln Ser  
                   20                  25                  30  
 Ala Leu Ala Ala Arg Met Trp Ser Ala Thr Cys Trp Thr Thr Pro Pro  
                   35                  40                  45  
 Gln Arg Ser Leu Met Arg Trp Arg Lys Ser Lys Tyr Leu Gly Ser Ala  
                   50                  55                  60  
 Glu Pro Trp Ser Pro Arg Lys Pro Pro Phe Ser Pro Pro Leu Pro Phe  
   65                  70                  75                  80  
 Cys Gln Val Arg Ala His Lys Leu Pro Gly His Ile Cys His Pro Leu  
                   85                  90                  95  
 Gly His Pro Tyr Cys Pro Arg Ala Leu Asn Phe Leu Pro Phe Leu Met  
                   100                  105                  110  
 Ala Leu Gly Arg Gln Met Gly Gly Ser Gly Asp Gly Met Gly Tyr Thr  
                   115                  120                  125  
 Ala Ser Pro Cys Ser Pro Ser Gly Glu Thr Cys Leu His Gln Ala Ala

130                      135                      140  
 Ala Leu Gly Gln Arg Thr Ile Cys His Tyr Ile Val Glu Ala Gly Ala  
 145                      150                      155                      160  
 Ser Leu Met Lys Thr Asp Gln Gln Gly Asp Thr Pro Arg Gln Arg Ala  
                     165                      170                      175  
 Glu Lys Ala Gln Asp Thr Glu Leu Ala Ala Tyr Leu Glu Asn Arg Gln  
                     180                      185                      190  
 His Tyr Gln Met Ile Gln Arg Glu Asp Gln Glu Thr Ala Val  
                     195                      200                      205

<210> 2497

<211> 126

<212> PRT

<213> Homo sapiens

<400> 2497

Met Leu Pro Thr Lys Glu Gly Ser Gln Ser Gly Tyr Asn Gln Trp Leu  
   1                      5                      10                      15  
 Pro Phe Asp Glu Arg Ala Gln Glu Leu Arg Trp Glu Ala Trp Ser Thr  
                     20                      25                      30  
 Lys Phe His Leu Lys Ala Glu Arg Glu Glu Phe Lys Val Gln Ile Asp  
                     35                      40                      45  
 Leu Arg Glu Cys Gln Ala Tyr Ser Ser Pro Met Glu Ser Pro Gln Pro  
                     50                      55                      60  
 Val Val Met Gly Glu Ala Pro Gln Ile Val Val Trp Cys Leu Gln Ala  
                     65                      70                      75                      80  
 Pro Gly Leu Cys His Pro Asp Leu Ser Ile Gly Val His Leu Leu Val  
                     85                      90                      95  
 Thr Lys Tyr Lys Ser Arg Asp Trp Asp Gly Arg Gly Glu Pro Asn Arg  
                     100                      105                      110  
 Ser Ser Phe Arg Ser Ala Glu Ala Ala Ala Phe Ala Ser Gln  
                     115                      120                      125

<210> 2498



&lt;211&gt; 393

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2498

```

Met Arg Thr Leu Phe Asn Leu Leu Trp Leu Ala Leu Ala Cys Ser Pro
  1              5              10              15
Val His Thr Thr Leu Ser Lys Ser Asp Ala Lys Lys Ala Ala Ser Lys
      20              25              30
Thr Leu Leu Glu Lys Ser Gln Phe Ser Asp Lys Pro Val Gln Asp Arg
      35              40              45
Gly Leu Val Val Thr Asp Leu Lys Ala Glu Ser Val Val Leu Glu His
      50              55              60
Arg Ser Tyr Cys Ser Ala Lys Ala Arg Asp Arg His Phe Ala Gly Asp
      65              70              75              80
Val Leu Gly Tyr Val Thr Pro Trp Asn Ser His Gly Tyr Asp Val Thr
      85              90              95
Lys Val Phe Gly Ser Lys Phe Thr Gln Ile Ser Pro Val Trp Leu Gln
      100             105             110
Leu Lys Arg Arg Gly Arg Glu Met Phe Glu Val Thr Gly Leu His Asp
      115             120             125
Val Asp Gln Gly Trp Met Arg Ala Val Arg Lys His Ala Lys Gly Leu
      130             135             140
His Ile Val Pro Arg Leu Leu Phe Glu Asp Trp Thr Tyr Asp Asp Phe
      145             150             155             160
Arg Asn Val Leu Asp Ser Glu Asp Glu Ile Glu Glu Leu Ser Lys Thr
      165             170             175
Val Val Gln Val Ala Lys Asn Gln His Phe Asp Gly Phe Val Val Glu
      180             185             190
Val Trp Asn Gln Leu Leu Ser Gln Lys Arg Val Gly Leu Ile His Met
      195             200             205
Leu Thr His Leu Ala Glu Ala Leu His Gln Ala Arg Leu Leu Ala Leu
      210             215             220

Leu Val Ile Pro Pro Ala Ile Thr Pro Gly Thr Asp Gln Leu Gly Met
      225             230             235             240

```

Phe Thr His Lys Glu Phe Glu Gln Leu Ala Pro Val Leu Asp Gly Phe  
                   245                  250                  255  
 Ser Leu Met Thr Tyr Asp Tyr Ser Thr Ala His Gln Pro Gly Pro Asn  
                   260                  265                  270  
 Ala Pro Leu Ser Trp Val Arg Ala Cys Val Gln Val Leu Asp Pro Lys  
                   275                  280                  285  
 Ser Lys Trp Arg Ser Lys Ile Leu Leu Gly Leu Asn Phe Tyr Gly Met  
                   290                  295                  300  
 Asp Tyr Ala Thr Ser Lys Asp Ala Arg Glu Pro Val Val Gly Ala Arg  
 305                  310                  315                  320  
 Tyr Ile Gln Thr Leu Lys Asp His Arg Pro Arg Met Val Trp Asp Ser  
                   325                  330                  335  
 Gln Val Ser Glu His Phe Phe Glu Tyr Lys Lys Ser Arg Ser Gly Arg  
                   340                  345                  350  
 His Val Val Phe Tyr Pro Thr Leu Lys Ser Leu Gln Val Arg Leu Glu  
                   355                  360                  365  
 Leu Ala Arg Glu Leu Gly Val Gly Val Ser Ile Trp Glu Leu Gly Gln  
                   370                  375                  380  
 Gly Leu Asp Tyr Phe Tyr Asp Leu Leu  
 385                  390

<210> 2499

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2499

Met Met Ser Pro Ser Lys Leu Leu Ile Ser Arg Gly Ser Ala Leu Thr  
   1                  5                  10                  15  
 Gln Val Trp Leu Thr Ala Ala Ile Leu Gly Gln Val Gly Ala Glu Gln  
                   20                  25                  30  
 Ser Ala Trp Lys Gly Asp Leu Tyr Gly Arg Gln Leu Trp Glu Gly Trp  
                   35                  40                  45  
 Cys Trp Cys Trp Ser Ser Gln Ala Pro Tyr Ser Leu Leu Met Pro Phe  
                   50                  55                  60

Ser Arg Leu Pro Gly Asp Leu Val Lys His His Ile Asp Ile Ile Leu  
 65 70 75 80  
 Asn Gln Arg Asn Tyr Met Ala Ala Thr Leu Lys Ile Ile Glu Arg Asn  
 85 90 95  
 Phe Pro Glu Leu Leu Ser Leu Asn Leu Cys Asp Asn Lys Leu Tyr His  
 100 105 110  
 Leu Asp Gly Leu Pro Asp Ile Ile Glu Lys Ala Pro Lys Val Lys Thr  
 115 120 125  
 Leu Asn Leu Ser Lys Asn Lys Leu Lys Ser Ala Trp Glu Leu Gly Lys  
 130 135 140  
 Val Lys Gly Leu Lys Leu Glu Glu Leu Trp Leu Glu Gly Asn Ser Leu  
 145 150 155 160  
 Cys Ser Thr Phe Ser Asp Gln Ser Ala Tyr Val Ser Ile Ile Arg Glu  
 165 170 175  
 Tyr Phe Pro Lys Leu Leu Cys Leu Asp Gly Gln Glu Leu Ala Ser Pro  
 180 185 190  
 Ile Ile Ile Gly Ile Glu Ala Pro Glu Ile Ile Lys Pro Cys Lys Glu  
 195 200 205  
 Ser Tyr Lys Gly Ser Glu Thr Ile Lys Ser Leu Val Leu Gln Phe Leu  
 210 215 220  
 Leu Gln Tyr Tyr Leu Ile Tyr Asp Ser Glu Asp Arg Thr Gly Leu Leu  
 225 230 235 240  
 Ser Val Tyr His Asp Lys Ala Cys Phe Ser Leu Thr Ile Thr Leu Asn  
 245 250 255  
 Pro Glu Asp Pro Glu Pro Ser Ser Leu Glu Lys Tyr Phe Lys Asp Ser  
 260 265 270  
 Arg Asn Ile Lys Asn Ile Lys Asp Pro Cys Leu Arg Ile Gln Leu Leu  
 275 280 285  
 Lys His Thr Lys Arg Glu Ile Val Asp Ser Leu Ser Val Leu Pro Arg  
 290 295 300  
 Thr Gln His Asp Leu Asn Ser Tyr Val Val Asp Leu Cys Ile Gln Thr  
 305 310 315 320  
 Val Ser Thr Cys Phe Leu Pro Gln Ser Gly Pro Glu Ser  
 325 330

&lt;210&gt; 2500

&lt;211&gt; 294

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2500

```

Met Ser Leu Gly Gly His Pro Asn Asn Val Val Ser Val Lys Tyr Cys
  1              5              10              15
Asn Tyr Thr Ser Leu Val Phe Thr Val Ser Thr Ser Tyr Ile Lys Val
      20              25              30
Trp Asp Ile Arg Asp Ser Ala Lys Cys Ile Arg Thr Leu Thr Ser Ser
      35              40              45
Gly Gln Val Thr Leu Gly Asp Ala Cys Ser Ala Ser Thr Ser Arg Thr
      50              55              60
Val Ala Ile Pro Ser Gly Glu Asn Gln Ile Asn Gln Ile Ala Leu Asn
      65              70              75              80
Pro Thr Gly Thr Phe Leu Tyr Ala Ala Ser Gly Asn Ala Val Arg Met
              85              90              95
Trp Asp Leu Lys Arg Phe Gln Ser Thr Gly Lys Leu Thr Gly His Leu
      100              105              110
Gly Pro Val Met Cys Leu Thr Val Asp Gln Ile Ser Ser Gly Gln Asp
      115              120              125
Leu Ile Ile Thr Gly Ser Lys Asp His Tyr Ile Lys Met Phe Asp Val
      130              135              140
Thr Glu Gly Ala Leu Gly Thr Val Ser Pro Thr His Asn Phe Glu Pro
      145              150              155              160
Pro His Tyr Asp Gly Ile Glu Ala Leu Thr Ile Gln Gly Asp Asn Leu
              165              170              175
Phe Ser Gly Ser Arg Asp Asn Gly Ile Lys Lys Trp Asp Leu Thr Gln
              180              185              190
Lys Asp Leu Leu Gln Gln Val Pro Asn Ala His Lys Asp Trp Val Cys.
      195              200              205
Ala Leu Gly Val Val Pro Asp His Pro Val Leu Leu Ser Gly Cys Arg
      210              215              220
Gly Gly Ile Leu Lys Val Trp Asn Met Asp Thr Phe Met Pro Val Gly
      225              230              235              240

```

Glu Met Lys Gly His Asp Ser Pro Ile Asn Ala Ile Cys Val Asn Ser  
                   245                  250                  255  
 Thr His Ile Phe Thr Ala Ala Asp Asp Arg Thr Val Arg Ile Trp Lys  
                   260                  265                  270  
 Ala Arg Asn Leu Gln Asp Gly Gln Ile Ser Asp Thr Gly Asp Leu Gly  
                   275                  280                  285  
 Glu Asp Ile Ala Ser Asn  
                   290

<210> 2501

<211> 130

<212> PRT

<213> Homo sapiens

<400> 2501

Met Ile Thr Ala Ile Leu Leu Gly Phe Leu Gly Leu Leu Leu Gly Ile  
   1                  5                  10                  15  
 Ala Gly Leu Arg Cys Thr Asn Ile Gly Gly Leu Glu Leu Ser Arg Lys  
                   20                  25                  30  
 Ala Lys Leu Ala Ala Thr Ala Gly Ala Leu His Ile Leu Ala Gly Asn  
                   35                  40                  45  
 Trp Gly Lys Val Met Gly Arg Gly Ser Pro Ser Thr Ala Asp Phe Arg  
                   50                  55                  60  
 Leu Leu Cys Pro His Leu Ile Ser Ser Pro Ile Pro Thr Pro His Ala  
   65                  70                  75                  80  
 His Leu Pro Tyr Pro Ala Ala Trp Thr Pro Ala His Pro Cys Leu Ile  
                   85                  90                  95  
 Cys Thr Pro Gln Ile Ser Trp Leu Gln Ile Ser Pro Ser Ala Val Phe  
                   100                  105                  110  
 Leu Glu Leu Pro Val Gly Ala Gly His Gly Gln Val Trp Glu Gly Leu  
                   115                  120                  125  
 Arg Arg  
                   130

&lt;210&gt; 2502

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2502

```

Met Asp Ser Gln Phe His Met Ala Gly Glu Thr Ser Gln Ser Trp Gln
 1             5             10             15
Lys Ala Lys Ile Arg Ser Tyr Thr Ala Ala Asp Glu Arg Ala Cys Val
          20             25             30
Gly Glu Leu Pro Ser Ile Gln Pro Ser Asp Leu Met Arg Leu Ile His
          35             40             45
Tyr His Lys Asn Asn Thr Val Leu Met Ile Gln Leu Pro Pro Pro Arg
          50             55             60
Phe Leu Pro Gln Tyr Val Gly Ile Met Gly Thr Thr Ile Arg Asp Leu
          65             70             75             80
Gly Glu Asp Thr Ala Lys Pro Tyr Gln Ser His Asn Lys Asp Gln Arg
          85             90             95
Pro Ser Leu Pro
          100

```

&lt;210&gt; 2503

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2503

```

Met Asn Gly Gly Thr Ser Leu His Gln Lys Cys Gln Leu Lys Pro Arg
 1             5             10             15
Gly Ser Phe Phe Ser Val Ala Leu Arg Glu Arg Pro Arg Glu Ser His
          20             25             30
Gly Val Phe Pro Phe Gln Phe Arg Ser Thr Pro Arg Ala Val Thr Val
          35             40             45
Ser Pro Pro Phe Leu Pro Gly Glu Lys Lys Val Leu Gly Val Pro Ser
          50             55             60

```

Ala Gly Gln Arg Lys Asn Ser Pro Phe Phe Ala Pro Val Pro Lys Gly  
65 70 75 80  
Ser Phe Cys Phe His Phe His Leu Ser His Gly Arg Arg Pro Ala Gly  
85 90 95  
Val Gln Phe Ala Asp Pro Thr Ser Pro Met Met Pro Asn Ser Ile Leu  
100 105 110  
Thr Val Ser His Val Ala Leu Ser Val Leu Gly Thr Gly Glu Ser Leu  
115 120 125  
Trp Ala Met Ile Leu Gly Trp Thr Gly Val Pro Trp Ala Pro Leu Pro  
130 135 140  
Pro Ser Phe Pro Gln Ser Met Thr Arg Gln Pro Phe Pro Val Thr  
145 150 155

<210> 2504

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2504

Met His Val Thr Val Gln Thr Gln Leu His Ser Gly Lys Glu Pro Ala  
1 5 10 15  
Ser Phe Leu Leu Leu Ser Cys Cys Ala Gln Glu Val Ala Ser Val Phe  
20 25 30  
Glu Ser Asn Val Ala Ala Leu Ala Pro Ala Ile Ile Ser Ile Leu Gln  
35 40 45  
Gln Val Ala Ser Gly Lys Lys Lys Gly Arg Ala Tyr Ala Phe His Phe  
50 55 60  
Arg Asp Thr Trp Pro Ser Ala Ala His Ile Thr Leu Leu Thr Leu Cys  
65 70 75 80  
Trp Asp Gln Ser Leu Val Thr Trp Gln Gln Ile Ala Val Arg Asn Ile  
85 90 95  
Gly Lys Gly Cys Leu Trp Leu Leu Gly Leu Met Thr Ile Gly Asn Cys  
100 105 110  
Cys Thr Thr Lys Gly Gly Phe  
115

&lt;210&gt; 2505

&lt;211&gt; 583

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2505

```

Met Leu Ala Ile Gly Ser Leu Asp His Ala His Ile Val Arg Leu Leu
 1             5             10             15
Gly Leu Cys Pro Gly Ser Ser Leu Gln Leu Val Thr Gln Tyr Leu Pro
      20             25             30
Leu Gly Ser Leu Leu Asp His Val Arg Gln His Arg Gly Ala Leu Gly
      35             40             45
Pro Gln Leu Leu Leu Asn Trp Gly Val Gln Ile Ala Lys Gly Met Tyr
      50             55             60
Tyr Leu Glu Glu His Gly Met Val His Arg Asn Leu Ala Ala Arg Asn
      65             70             75             80
Val Leu Leu Lys Ser Pro Ser Gln Val Gln Val Ala Asp Phe Gly Val
      85             90             95
Ala Asp Leu Leu Pro Pro Asp Asp Lys Gln Leu Leu Tyr Ser Glu Ala
      100            105            110
Lys Thr Pro Ile Lys Trp Met Ala Leu Glu Ser Ile His Phe Gly Lys
      115            120            125
Tyr Thr His Gln Ser Asp Val Trp Ser Tyr Gly Val Thr Val Trp Glu
      130            135            140
Leu Met Thr Phe Gly Ala Glu Pro Tyr Ala Gly Leu Arg Leu Ala Glu
      145            150            155            160
Val Pro Asp Leu Leu Glu Lys Gly Glu Arg Leu Ala Gln Pro Gln Ile
      165            170            175
Cys Thr Ile Asp Val Tyr Met Val Met Val Lys Cys Trp Met Ile Asp
      180            185            190
Glu Asn Ile Arg Pro Thr Phe Lys Glu Leu Ala Asn Glu Phe Thr Arg
      195            200            205
Met Ala Arg Asp Pro Pro Arg Tyr Leu Val Ile Lys Arg Glu Ser Gly
      210            215            220

```



Pro Gly Ile Ala Pro Gly Pro Glu Pro His Gly Leu Thr Asn Lys Lys  
 225 230 235 240  
  
 Leu Glu Glu Val Glu Leu Glu Pro Glu Leu Asp Leu Asp Leu Asp Leu  
 245 250 255  
 Glu Ala Glu Glu Asp Asn Leu Ala Thr Thr Thr Leu Gly Ser Ala Leu  
 260 265 270  
 Ser Leu Pro Val Gly Thr Leu Asn Arg Pro Arg Gly Ser Gln Ser Leu  
 275 280 285  
 Leu Ser Pro Ser Ser Gly Tyr Met Pro Met Asn Gln Gly Asn Leu Gly  
 290 295 300  
 Glu Ser Cys Gln Glu Ser Ala Val Ser Gly Ser Ser Glu Arg Cys Pro  
 305 310 315 320  
 Arg Pro Val Ser Leu His Pro Met Pro Arg Gly Cys Leu Ala Ser Glu  
 325 330 335  
 Ser Ser Glu Gly His Val Thr Gly Ser Glu Ala Glu Leu Gln Glu Lys  
 340 345 350  
 Val Ser Met Cys Arg Ser Arg Ser Arg Ser Arg Ser Pro Arg Pro Arg  
 355 360 365  
 Gly Asp Ser Ala Tyr His Ser Gln Arg His Ser Leu Leu Thr Pro Val  
 370 375 380  
 Thr Pro Leu Ser Pro Pro Gly Leu Glu Glu Glu Asp Val Asn Gly Tyr  
 385 390 395 400  
 Val Met Pro Asp Thr His Leu Lys Gly Thr Pro Ser Ser Arg Glu Gly  
 405 410 415  
 Thr Leu Ser Ser Val Gly Leu Ser Ser Val Leu Gly Thr Glu Glu Glu  
 420 425 430  
 Asp Glu Asp Glu Glu Tyr Glu Tyr Met Asn Arg Arg Arg Arg His Ser  
 435 440 445  
 Pro Pro His Pro Pro Arg Pro Ser Ser Leu Glu Glu Leu Gly Tyr Glu  
 450 455 460  
 Tyr Met Asp Val Gly Ser Asp Leu Ser Ala Ser Leu Gly Ser Thr Gln  
 465 470 475 480  
 Ser Cys Pro Leu His Pro Val Pro Ile Met Pro Thr Ala Gly Thr Thr  
 485 490 495  
 Pro Asp Glu Asp Tyr Glu Tyr Met Asn Arg Gln Arg Asp Gly Gly Gly

500 505 510  
 Pro Gly Gly Asp Tyr Ala Ala Met Gly Ala Cys Pro Ala Ser Glu Gln  
 515 520 525  
 Gly Tyr Glu Glu Met Arg Ala Phe Gln Gly Pro Gly His Gln Ala Pro  
 530 535 540  
 His Val His Tyr Ala Arg Leu Lys Thr Leu Arg Ser Leu Glu Ala Thr  
 545 550 555 560  
 Asp Ser Ala Phe Asp Asn Pro Asp Tyr Trp His Ser Arg Leu Phe Pro  
 565 570 575  
 Lys Ala Asn Ala Gln Gly Thr  
 580

<210> 2506

<211> 247

<212> PRT

<213> Homo sapiens

<400> 2506

Met Lys Arg Leu Leu Thr Thr Gly Val Ser Arg Trp Asn Thr Arg Gln  
 1 5 10 15  
 Ile Ala Leu Trp Asp Gln Glu Asp Leu Ser Met Pro Leu Ile Glu Glu  
 20 25 30  
 Glu Ile Asp Gly Leu Ser Gly Leu Leu Phe Pro Phe Tyr Asp Ala Asp  
 35 40 45  
 Thr His Met Leu Tyr Leu Ala Gly Lys Gly Asp Gly Asn Ile Arg Tyr  
 50 55 60  
 Tyr Glu Ile Ser Thr Glu Lys Pro Tyr Leu Ser Tyr Leu Met Glu Phe  
 65 70 75 80  
 Arg Ser Pro Ala Pro Gln Lys Gly Leu Gly Val Met Pro Lys His Gly  
 85 90 95  
 Leu Asp Val Ser Ala Cys Glu Val Phe Arg Phe Tyr Lys Leu Val Thr  
 100 105 110  
 Leu Lys Gly Leu Ile Glu Pro Ile Ser Met Ile Val Pro Arg Arg Ser  
 115 120 125  
 Asp Ser Tyr Gln Glu Asp Ile Tyr Pro Met Thr Pro Gly Thr Glu Pro

130                      135                      140  
 Ala Leu Thr Pro Asp Glu Trp Leu Gly Gly Ile Asn Arg Asp Pro Val  
 145                      150                      155                      160  
 Leu Met Ser Leu Lys Glu Gly Tyr Lys Lys Ser Ser Lys Met Val Phe  
                     165                      170                      175  
 Lys Ala Pro Ile Lys Glu Lys Lys Ser Val Val Val Asn Gly Ile Asp  
                     180                      185                      190  
 Leu Leu Glu Asn Val Pro Pro Arg Thr Glu Asn Glu Leu Leu Arg Met  
                     195                      200                      205  
 Phe Phe Arg Gln Gln Asp Glu Ile Arg Arg Leu Lys Glu Glu Leu Ala  
                     210                      215                      220  
 Gln Lys Asp Ile Arg Ile Arg Gln Leu Gln Leu Glu Leu Lys Asn Leu  
 225                      230                      235                      240  
 Arg Asn Ser Pro Lys Asn Cys  
                     245

<210> 2507

<211> 345

<212> PRT

<213> Homo sapiens

<400> 2507

Met Ala Pro Val Ser Trp Ile Thr Pro Gly Leu Lys Thr Thr Ala Val  
   1                      5                      10                      15  
 Cys Arg Gly Val Leu Arg Gly Val Thr Phe Leu Leu Arg Arg Glu Gly  
                     20                      25                      30  
 Asp His Glu Phe Leu Glu Val Pro Glu Ala Gln Glu Asp Val Glu Ala  
                     35                      40                      45  
 Thr Phe Pro Val His Gln Pro Gly Asn Tyr Ser Cys Ser Tyr Arg Thr  
                     50                      55                      60  
 Asp Gly Glu Gly Ala Leu Ser Glu Pro Ser Ala Thr Val Thr Ile Glu  
   65                      70                      75                      80  
 Glu Leu Ala Ala Pro Pro Pro Pro Val Leu Met His His Gly Glu Ser  
                     85                      90                      95  
 Ser Gln Val Leu His Pro Gly Asn Lys Val Thr Leu Thr Cys Val Ala

100	105	110
Pro Leu Ser Gly Val Asp Phe Gln Leu Arg Arg Gly Glu Lys Glu Leu		
115	120	125
Leu Val Pro Arg Ser Ser Thr Ser Pro Asp Arg Ile Phe Phe His Leu		
130	135	140
Asn Ala Val Ala Leu Gly Asp Gly Gly His Tyr Thr Cys Arg Tyr Arg		
145	150	155
Leu His Asp Asn Gln Asn Gly Trp Ser Gly Asp Ser Ala Pro Val Glu		
165	170	175
Leu Ile Leu Ser Asp Glu Thr Leu Pro Ala Pro Glu Phe Ser Pro Glu		
180	185	190
Pro Glu Ser Gly Arg Ala Leu Arg Leu Arg Cys Leu Ala Pro Leu Glu		
195	200	205
Gly Ala Arg Phe Ala Leu Val Arg Glu Asp Arg Gly Gly Arg Arg Val		
210	215	220
His Arg Phe Gln Ser Pro Ala Gly Thr Glu Ala Leu Phe Glu Leu His		
225	230	235
Asn Ile Ser Val Ala Asp Ser Ala Asn Tyr Ser Cys Val Tyr Val Asp		
245	250	255
Leu Lys Pro Pro Phe Gly Gly Ser Ala Pro Ser Glu Arg Leu Glu Leu		
260	265	270
His Val Asp Gly Glu Leu Ala Gly His Gln Arg Gly Arg Ala Arg Val		
275	280	285
Gln Cys Pro Ser Gly Pro Pro Val Phe Pro Leu Phe Pro Trp Ala Ser		
290	295	300
Asp Gly Gly Ala Leu Gly Leu Gly Ser Ala Pro Ile Ala Tyr Pro Gly		
305	310	315
Gly Glu Gln Ala Ile Gly Gly Arg Gly Ser Gly Asp Ala Trp Asn Phe		
325	330	335
Gly Leu Phe Pro Thr Asp Ala Ser Pro		
340	345	

&lt;210&gt; 2508

&lt;211&gt; 105

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2508

```

Met Arg Thr Gly Ile Phe Val Phe Leu Thr Lys Cys Cys Ile Ser Gln
 1             5             10             15
Asp His Pro Gly Pro Pro Cys Pro Ile Leu Cys Leu Lys Lys Pro Trp
             20             25             30
Asp Pro Ser Arg Gln Thr His Arg Arg Leu Asp Val Glu Arg Ser Thr
             35             40             45
Ser Val Gln Glu His Met Gly Gly Cys His Phe Ser Pro Phe Pro Glu
             50             55             60
Arg Glu Lys Leu Ser Thr Leu Arg Gly Ile His Gln Gln Ala Pro Ala
65             70             75             80
Leu Trp Gln Ala Thr Asp Gln Trp Ile Asp Ile Glu Phe Gly Trp Gly
             85             90             95
Ser Gln Arg Arg Ala Trp Ala Ala Glu
             100             105

```

<210> 2509

<211> 114

<212> PRT

<213> Homo sapiens

<400> 2509

```

Met Arg Trp Arg Gln Arg Ser Phe Leu Leu Arg Leu Phe Leu Gly Ser
 1             5             10             15
Leu Arg Gly Gly Gln His His Pro Pro Leu Thr Leu Pro Ser Ala Ser
             20             25             30
Ser Leu Pro Phe Ser Thr Leu Ser Leu Leu Leu Ala Ser Ser Leu Ser
             35             40             45
Cys Cys Leu Val Ser Pro Cys Pro Lys Thr Pro Gly Ser Phe Val Leu
             50             55             60
Leu Pro Trp Pro Pro Pro Arg Arg Arg Ser Gln Ala Pro Ser Pro Arg
65             70             75             80
Arg Gly Ile His Thr Thr Gly Ser Cys Trp Gly Trp Gly Ser Pro Ala

```

85 90 95  
 Gly Phe Leu Met Pro Cys Ala Gln Gly Val Ala Ala Val Ile Phe Gly  
 100 105 110  
 Leu Ser

<210> 2510

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2510

Met Gln Phe Arg Leu Phe Ser Phe Ala Leu Ile Ile Leu Asn Cys Met  
 1 5 10 15  
 Asp Tyr Ser His Cys Gln Gly Asn Arg Trp Arg Arg Ser Lys Arg Ala  
 20 25 30  
 Ser Tyr Val Ser Asn Pro Ile Cys Lys Gly Cys Leu Ser Cys Ser Lys  
 35 40 45  
 Asp Asn Gly Cys Ser Arg Cys Gln Gln Lys Leu Phe Phe Phe Leu Arg  
 50 55 60  
 Arg Glu Gly Met Arg Gln Tyr Gly Glu Cys Leu His Ser Cys Pro Ser  
 65 70 75 80  
 Gly Tyr Tyr Gly His Arg Ala Pro Asp Met Asn Arg Cys Ala Arg Cys  
 85 90 95  
 Arg Ile Glu Asn Cys Asp Ser Cys Phe Ser Lys Asp Phe Cys Thr Lys  
 100 105 110  
 Cys Lys Val Gly Phe Tyr Leu His Arg Gly Arg Cys Phe Asp Glu Cys  
 115 120 125  
 Pro Asp Gly Phe Ala Pro Leu Glu Glu Thr Met Glu Cys Val Glu Gly  
 130 135 140  
 Cys Glu Val Gly His Trp Ser Glu Trp Gly Thr Cys Ser Arg Asn Asn  
 145 150 155 160  
 Arg Thr Cys Gly Phe Lys Trp Gly Leu Glu Thr Arg Thr Arg Gln Ile  
 165 170 175

Val Lys Lys Pro Val Lys Asp Thr Ile Pro Cys Pro Thr Ile Ala Glu  
                   180                  185                  190  
 Ser Arg Arg Cys Lys Met Thr Met Arg His Cys Pro Gly Gly Lys Arg  
                   195                  200                  205  
 Thr Pro Lys Ala Lys Glu Lys Arg Asn Lys Lys Lys Lys Arg Lys Leu  
                   210                  215                  220  
 Ile Glu Arg Ala Gln Glu Gln His Ser Val Phe Leu Ala Thr Asp Arg  
 225                  230                  235                  240  
 Ala Asn Gln

<210> 2511

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2511

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Pro Lys Pro  
   1                  5                  10                  15  
 Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala  
                   20                  25                  30  
 Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro  
                   35                  40                  45  
 Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro  
                   50                  55                  60  
 Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val  
                   65                  70                  75                  80  
 Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg  
                   85                  90                  95  
 Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His  
                   100                  105                  110  
 Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe  
                   115                  120                  125  
 Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg

130

135

140

&lt;210&gt; 2512

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2512

Met Pro Arg Ala Ser Cys Cys His Cys Leu Cys Gly Pro Glu Ser Trp  
 1 5 10 15  
 Thr Cys Pro Ser Asp Ser Gly Val Ala Ala Trp Ala Gly Ser Val Thr  
 20 25 30  
 Leu Gly Cys Tyr Thr Phe Trp Glu Leu Asp Arg Ser Gly Cys Leu Gly  
 35 40 45  
 Gly Leu Trp His Pro Gly Met Leu Tyr Ile Leu Gly Ala Gly Gln Glu  
 50 55 60  
 Trp Leu Leu Gly Trp Ala Leu Ala Pro Trp Asp Val Ile His Ser Gly  
 65 70 75 80  
 Asn Cys Asn Gln Pro Leu Glu Lys Ser Glu Leu Gln Glu Val Thr Leu  
 85 90 95  
 Gly Trp Asp Leu Gly Thr Trp Pro Gly Gln His Gly Asp Thr Arg Leu  
 100 105 110  
 Gln Gln Glu Leu Trp Ser Val Leu Gly Ser Leu Gly Ala Gly Leu Arg  
 115 120 125  
 Pro Trp Ala Gly Phe Leu Gln Ala Glu Val Leu Gly Lys Trp Gly Ser  
 130 135 140  
 Gln Ala Ser Cys Arg Leu Pro His Tyr Val Ala Ser Asp Ser Ser Ser  
 145 150 155 160  
 Leu Met Lys Ala Ile Trp Phe Ile Thr Leu Lys Leu  
 165 170

&lt;210&gt; 2513

&lt;211&gt; 678

&lt;212&gt; PRT



&lt;213&gt; Homo sapiens

&lt;400&gt; 2513

Met Val Arg Ala Gly Gly Arg Ala Trp Gln Gln Gly Leu His Ser Leu  
 1 5 10 15  
 Ser Ala Val Ser Ile Leu Ala Lys Gly Phe Met Phe Leu Leu Val Gly  
 20 25 30  
 Asp Ser Arg Ala Glu Ser Val Thr Asn Thr Leu Val Leu Phe Thr Ile  
 35 40 45  
 Gly Glu Glu Ser Leu Thr Ile Phe Val Asp Lys Gln Lys Leu Gly Arg  
 50 55 60  
 Lys Thr Glu Thr Thr Gly Gly Ala Ser Ile Ile Gly Gly Ser Gly Asn  
 65 70 75 80  
 Ser Thr Ala Val Ser Leu Glu Thr Leu His Gln Leu Ala Ala Ser Tyr  
 85 90 95  
 Phe Ile Asp Arg Glu Ser Thr Leu Arg Arg Leu His His Ile Gln Ile  
 100 105 110  
 Ala Thr Gly Ala Ile Lys Val Thr Glu Thr Arg Thr Gly Pro Leu Gly  
 115 120 125  
 Cys Ser Asn Tyr Asp Asn Leu Asp Ser Val Ser Ser Val Leu Val Gln  
 130 135 140  
 Ser Pro Glu Asn Lys Val Gln Leu Leu Gly Leu Gln Val Leu Leu Pro  
 145 150 155 160  
 Glu Tyr Leu Arg Glu Arg Phe Val Ala Ala Ala Leu Ser Tyr Ile Thr  
 165 170 175  
 Cys Ser Ser Glu Gly Glu Leu Val Cys Lys Glu Asn Asp Cys Trp Cys  
 180 185 190  
 Lys Cys Ser Pro Thr Phe Pro Glu Cys Asn Cys Pro Asp Ala Asp Ile  
 195 200 205  
 Gln Ala Met Glu Asp Ser Leu Leu Gln Ile Gln Asp Ser Trp Ala Thr  
 210 215 220  
 His Asn Arg Gln Phe Glu Glu Ser Glu Glu Phe Gln Ala Leu Leu Lys  
 225 230 235 240  
 Arg Leu Pro Asp Asp Arg Phe Leu Asn Ser Thr Ala Ile Ser Gln Phe  
 245 250 255  
 Trp Ala Met Asp Thr Ser Leu Gln His Arg Tyr Gln Gln Leu Gly Ala

260	265	270
Gly Leu Lys Val Leu Phe Lys Lys Thr His Arg Ile Leu Arg Arg Leu		
275	280	285
Phe Asn Leu Cys Lys Arg Cys His Arg Gln Pro Arg Phe Arg Leu Pro		
290	295	300
Lys Glu Arg Ser Leu Ser Tyr Trp Trp Asn Arg Ile Gln Ser Leu Leu		
305	310	315
Tyr Cys Gly Glu Ser Thr Phe Pro Gly Thr Phe Leu Glu Gln Ser His		
325	330	335
Ser Cys Thr Cys Pro Tyr Asp Gln Ser Ser Cys Gln Gly Pro Ile Pro		
340	345	350
Cys Ala Leu Gly Glu Gly Pro Ala Cys Ala His Cys Ala Pro Asp Asn		
355	360	365
Ser Thr Arg Cys Gly Ser Cys Asn Pro Gly Tyr Val Leu Ala Gln Gly		
370	375	380
Leu Cys Arg Pro Glu Val Ala Glu Ser Leu Glu Asn Phe Leu Gly Leu		
385	390	395
Glu Thr Asp Leu Gln Asp Leu Glu Leu Lys Tyr Leu Leu Gln Lys Gln		
405	410	415
Asp Ser Arg Ile Glu Val His Ser Ile Phe Ile Ser Asn Asp Met Arg		
420	425	430
Leu Gly Ser Trp Phe Asp Pro Ser Trp Arg Lys Arg Met Leu Leu Thr		
435	440	445
Leu Lys Ser Asn Lys Tyr Lys Pro Gly Leu Val His Val Met Leu Ala		
450	455	460
Leu Ser Leu Gln Ile Cys Leu Thr Lys Asn Ser Thr Leu Glu Pro Val		
465	470	475
Met Ala Ile Tyr Val Asn Pro Phe Gly Gly Ser His Ser Glu Ser Trp		
485	490	495
Phe Met Pro Val Asn Glu Gly Ser Phe Pro Asp Trp Glu Arg Thr Asn		
500	505	510
Val Asp Ala Ala Ala Gln Cys Gln Asn Trp Thr Ile Thr Leu Gly Asn		
515	520	525
Arg Trp Lys Thr Phe Phe Glu Thr Val His Val Tyr Leu Arg Ser Arg		
530	535	540
Ile Lys Ser Leu Asp Asp Ser Ser Asn Glu Thr Ile Tyr Tyr Glu Pro		

545                      550                      555                      560  
 Leu Glu Met Thr Asp Pro Ser Lys Asn Leu Gly Tyr Met Lys Ile Asn  
                          565                      570                      575  
 Thr Leu Gln Val Phe Gly Tyr Ser Leu Pro Phe Asp Pro Asp Ala Ile  
                          580                      585                      590  
 Arg Asp Leu Ile Leu Gln Leu Asp Tyr Pro Tyr Thr Gln Gly Ser Gln  
                          595                      600                      605  
 Asp Ser Ala Leu Leu Gln Leu Ile Glu Leu Arg Asp Arg Val Asn Gln  
                          610                      615                      620  
 Leu Ser Pro Pro Gly Lys Val Arg Leu Asp Leu Phe Ser Cys Leu Leu  
 625                      630                      635                      640  
 Arg His Arg Leu Lys Leu Ala Asn Asn Glu Val Gly Arg Ile Gln Ser  
                          645                      650                      655  
 Ser Leu Arg Ala Phe Asn Ser Lys Leu Pro Asn Pro Val Glu Tyr Glu  
                          660                      665                      670  
 Thr Gly Lys Leu Cys Ser  
                          675

<210> 2514

<211> 121

<212> PRT

<213> Homo sapiens

<400> 2514

Met Leu Arg Asn Pro Gly Ser Gln Gly Pro Ala Ala Ala Gly Arg Gly  
   1                      5                      10                      15  
 Ala Val Gln Glu Ala Gly Leu Gly Met Ser Thr Gly Leu Arg Leu Ala  
                          20                      25                      30  
 Glu Ser Arg Val Glu Pro Ala Leu Glu Lys Gln Ala Gln Leu Glu Glu  
                          35                      40                      45  
 Gln Leu Arg Asp Lys Val Leu His Glu Lys Asp Leu Ser Gln Gln Gln  
                          50                      55                      60  
 Met Gln Ser Asp Leu Asp Lys Ala Asp Leu Ser Ala Arg Arg Val Pro  
 65                      70                      75                      80  
 Gly Gly Cys Cys Met Arg Gln Ala Ser Leu Gln Lys Ser Asp Arg Ala

	85		90		95										
Gly	Pro	Gly	Ser	Glu	Ala	Ser	Thr	Glu	Ala	Glu	Ser	Gly	Glu	Gly	Ser
	100							105					110		
Gly	Arg	Gln	Gly	Pro	His	Arg	Glu	Ala							
	115							120							

&lt;210&gt; 2515

&lt;211&gt; 766

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2515

Met	Ile	Trp	Arg	Ser	Arg	Ala	Gly	Ala	Glu	Leu	Phe	Ser	Leu	Met	Ala
1				5					10					15	
Leu	Trp	Glu	Trp	Ile	Ala	Leu	Ser	Leu	His	Cys	Trp	Val	Leu	Ala	Val
				20					25					30	
Ala	Ala	Val	Ser	Asp	Gln	His	Ala	Thr	Ser	Pro	Phe	Asp	Trp	Leu	Leu
				35					40					45	
Ser	Asp	Lys	Gly	Pro	Phe	His	Arg	Ser	Gln	Glu	Tyr	Thr	Asp	Phe	Val
		50					55					60			
Asp	Arg	Ser	Arg	Gln	Gly	Phe	Ser	Thr	Arg	Tyr	Lys	Ile	Tyr	Arg	Glu
	65					70					75				80
Phe	Gly	Arg	Trp	Lys	Val	Asn	Asn	Leu	Ala	Val	Glu	Arg	Arg	Asn	Phe
				85						90					95
Leu	Gly	Ser	Pro	Leu	Pro	Leu	Ala	Pro	Glu	Phe	Phe	Arg	Asn	Ile	Arg
				100						105				110	
Leu	Leu	Gly	Arg	Arg	Pro	Thr	Leu	Gln	Gln	Ile	Thr	Glu	Asn	Leu	Ile
				115						120				125	
Lys	Lys	Tyr	Gly	Thr	His	Phe	Leu	Leu	Ser	Ala	Thr	Leu	Gly	Gly	Glu
		130					135							140	
Glu	Ser	Leu	Thr	Ile	Phe	Val	Asp	Lys	Arg	Lys	Leu	Ser	Lys	Arg	Ala
	145					150					155				160
Glu	Gly	Ser	Asp	Ser	Thr	Thr	Asn	Ser	Ser	Ser	Val	Thr	Leu	Glu	Thr
				165							170				175
Leu	His	Gln	Leu	Ala	Ala	Ser	Tyr	Phe	Ile	Asp	Arg	Asp	Ser	Thr	Leu

180	185	190
Arg Arg Leu His His Ile Gln Ile Ala Ser Thr Ala Ile Lys Val Thr		
195	200	205
Glu Thr Arg Thr Gly Pro Leu Gly Cys Ser Asn Tyr Asp Asn Leu Asp		
210	215	220
Ser Val Ser Ser Val Leu Val Gln Ser Pro Glu Asn Lys Ile Gln Leu		
225	230	235
Gln Gly Leu Gln Val Leu Leu Pro Asp Tyr Leu Gln Glu Arg Phe Val		
245	250	255
Gln Ala Ala Leu Ser Tyr Ile Ala Cys Asn Ser Glu Gly Glu Phe Ile		
260	265	270
Cys Lys Glu Asn Asp Cys Trp Cys His Cys Gly Pro Lys Phe Pro Glu		
275	280	285
Cys Asn Cys Pro Ser Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu		
290	295	300
Arg Ile Thr Glu Thr Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser		
305	310	315
Asp Glu Phe Lys Leu Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu		
325	330	335
Asn Thr Ser Thr Ile Met His Leu Trp Thr Met Asp Ser Asn Phe Gln		
340	345	350
Arg Arg Tyr Glu Gln Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys		
355	360	365
Ala Gln Lys Ile Val His Lys Leu Phe Ser Leu Ser Lys Arg Cys His		
370	375	380
Lys Gln Pro Leu Ile Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp		
385	390	395
Leu Thr Arg Ile Gln Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu		
405	410	415
Gly Ser Phe Ser Glu Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln		
420	425	430
Val Val Cys Thr Ala Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala		
435	440	445
Cys Leu Thr Cys Ala Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn		
450	455	460
Thr Gly Tyr Met Leu Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu		

465	470	475	480
Ser Thr Asp His Tyr Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu			
	485	490	495
Met Lys Tyr Leu Leu Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala			
	500	505	510
Ile Phe Ile Ser Asn Asp Met Arg Leu Asn Ser Trp Phe Asp Pro Ser			
	515	520	525
Trp Arg Lys Arg Met Leu Leu Thr Leu Lys Ser Asn Lys Tyr Lys Ser			
	530	535	540
Ser Leu Val His Met Ile Leu Gly Leu Ser Leu Gln Ile Cys Leu Thr			
545	550	555	560
Lys Asn Ser Thr Leu Glu Pro Val Leu Ala Val Tyr Val Asn Pro Phe			
	565	570	575
Gly Gly Ser His Ser Glu Ser Trp Phe Met Pro Val Asn Glu Asn Ser			
	580	585	590
Phe Pro Asp Trp Glu Arg Thr Lys Leu Asp Leu Pro Leu Gln Cys Tyr			
	595	600	605
Asn Trp Thr Leu Thr Leu Gly Asn Lys Trp Lys Thr Phe Phe Glu Thr			
	610	615	620
Val His Ile Tyr Leu Arg Ser Arg Ile Lys Ser Asn Gly Pro Asn Gly			
625	630	635	640
Asn Glu Ser Ile Tyr Tyr Glu Pro Leu Glu Phe Ile Asp Pro Ser Arg			
	645	650	655
Asn Leu Gly Tyr Met Lys Ile Asn Asn Ile Gln Val Phe Gly Tyr Ser			
	660	665	670
Met His Phe Asp Pro Glu Ala Ile Arg Asp Leu Ile Leu Gln Leu Asp			
	675	680	685
Tyr Pro Tyr Thr Gln Gly Ser Gln Asp Ser Ala Leu Leu Gln Leu Leu			
	690	695	700
Glu Ile Arg Asp Arg Val Asn Lys Leu Ser Pro Pro Gly Gln Arg Arg			
705	710	715	720
Leu Asp Leu Phe Ser Cys Leu Leu Arg His Arg Leu Lys Leu Ser Thr			
	725	730	735
Ser Glu Val Val Arg Ile Gln Ser Ala Leu Gln Ala Phe Asn Ala Lys			
	740	745	750
Leu Pro Asn Thr Met Asp Tyr Asp Thr Thr Lys Leu Cys Ser			

755

760

765

&lt;210&gt; 2516

&lt;211&gt; 174

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2516

Met Ala Gly Ser Val Glu Leu Gln Glu Ile Gly Gly Pro Leu Pro Gly

1

5

10

15

Pro Ser Thr His Gln Glu Pro Leu Arg Gly Leu Pro Val Gly Leu Cys

20

25

30

Pro Cys Leu Pro Leu Trp Met Glu Lys Ala His Ile Val Pro Pro Val

35

40

45

Gly Ala Asn Cys Arg Ala Gln Gln Gly Cys Met Gly Pro Ala Ser Met

50

55

60

Pro Leu Leu Leu Thr His Ile Leu Ser Ala Pro Thr Pro Val His Pro

65

70

75

80

Leu Val Ser Leu Ser Tyr Leu Ser Leu Ser Cys Pro His Pro Ser Leu

85

90

95

Phe Leu Ser Val Leu Leu Leu Pro Phe Thr Leu Phe Val Ser Pro Ser

100

105

110

Leu Ser Val Leu Pro Pro Ser Leu Ser Thr Leu His Leu Ser Leu Cys

115

120

125

Val Ser Ile Ser Val Ser Leu Ser Val Ser Leu Pro Ile Pro His Pro

130

135

140

His Ser Leu Ser Ser Pro Ser Ser Leu Pro Ser Cys Leu Pro Leu Ile

145

150

155

160

Trp Phe Ile Leu Leu His Pro Ala Ala Pro Pro Thr Glu Pro

165

170

&lt;210&gt; 2517

&lt;211&gt; 484

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2517

Met Val His Glu Thr Ser Tyr Ser Ala Gln Phe Lys Gly Glu Ala Ser  
 1 5 10 15  
 Lys Pro Thr Thr Ala Asp Asn Lys Val Ile Asp Arg Arg Arg Ile Arg  
 20 25 30  
 Ser Leu Tyr Ser Glu Pro Phe Lys Glu Pro Pro Lys Val Glu Lys Pro  
 35 40 45  
 Ser Val Gln Ser Ser Lys Pro Lys Lys Thr Ser Ala Ser His Lys Pro  
 50 55 60  
 Thr Arg Lys Ala Lys Asp Lys Gln Ala Val Ser Gly Gln Ala Ala Lys  
 65 70 75 80  
 Lys Lys Ser Ala Glu Gly Pro Ser Thr Thr Lys Pro Asp Asp Lys Glu  
 85 90 95  
 Gln Ser Lys Glu Met Asn Asn Lys Leu Ala Glu Ala Lys Glu Ser Leu  
 100 105 110  
 Ala Gln Pro Val Ser Asp Ser Ser Lys Thr Gln Gly Pro Val Ala Thr  
 115 120 125  
 Glu Pro Asp Lys Asp Gln Gly Ser Val Val Pro Gly Leu Leu Lys Gly  
 130 135 140  
 Gln Gly Pro Met Val Gln Glu Pro Leu Lys Lys Gln Gly Ser Val Val  
 145 150 155 160  
 Pro Gly Pro Pro Lys Asp Leu Gly Pro Met Ile Pro Leu Pro Val Lys  
 165 170 175  
 Asp Gln Asp His Thr Val Pro Glu Pro Leu Lys Asn Glu Ser Pro Val  
 180 185 190  
 Ile Ser Ala Pro Val Lys Asp Gln Gly Pro Ser Val Pro Val Pro Pro  
 195 200 205  
 Lys Asn Gln Ser Pro Met Val Pro Ala Lys Val Lys Asp Gln Gly Ser  
 210 215 220  
 Val Val Pro Glu Ser Leu Lys Asp Gln Gly Pro Arg Ile Pro Glu Pro  
 225 230 235 240  
 Val Lys Asn Gln Ala Pro Met Val Pro Ala Pro Val Lys Asp Glu Gly  
 245 250 255  
 Pro Met Val Ser Ala Ser Val Lys Asp Gln Gly Pro Met Val Ser Ala



260	265	270
Pro Val Lys Asp Gln Gly Pro Ile Val Pro Ala Pro Val Lys Gly Glu		
275	280	285
Gly Pro Ile Val Pro Ala Pro Val Lys Asp Glu Gly Pro Met Val Ser		
290	295	300
Ala Pro Ile Lys Asp Gln Asp Pro Met Val Pro Glu His Pro Lys Asp		
305	310	315
Glu Ser Ala Met Ala Thr Ala Pro Ile Lys Asn Gln Gly Ser Met Val		
325	330	335
Ser Glu Pro Val Lys Asn Gln Gly Leu Val Val Ser Gly Pro Val Lys		
340	345	350
Asp Gln Asp Val Val Val Pro Glu His Ala Lys Val His Asp Ser Ala		
355	360	365
Val Val Ala Pro Val Lys Asn Gln Gly Pro Val Val Pro Glu Ser Val		
370	375	380
Lys Asn Gln Asp Pro Ile Leu Pro Val Leu Val Lys Asp Gln Gly Pro		
385	390	395
Thr Val Leu Gln Pro Pro Lys Asn Gln Gly Arg Ile Val Pro Glu Pro		
405	410	415
Leu Lys Asn Gln Val Pro Ile Val Pro Val Pro Leu Lys Asp Gln Asp		
420	425	430
Pro Leu Val Pro Val Pro Ala Lys Asp Gln Gly Pro Ala Val Pro Glu		
435	440	445
Pro Leu Lys Thr Gln Gly Pro Arg Asp Pro Gln Leu Pro Thr Val Ser		
450	455	460
Pro Leu Pro Arg Val Met Ile Pro Thr Ala Pro His Thr Glu Tyr Ile		
465	470	475
Glu Ser Ser Pro		480

&lt;210&gt; 2518

&lt;211&gt; 367

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2518

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg  
 1 5 10 15  
 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu  
 20 25 30  
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly  
 35 40 45  
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg  
 50 55 60  
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val  
 65 70 75 80  
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Ser Arg  
 85 90 95  
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu  
 100 105 110  
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp  
 115 120 125  
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro  
 130 135 140  
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu  
 145 150 155 160  
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro  
 165 170 175  
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg  
 180 185 190  
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu  
 195 200 205  
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser  
 210 215 220  
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser  
 225 230 235 240  
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu  
 245 250 255  
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys  
 260 265 270  
 Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg

275	280	285
Leu Lys Pro Glu Gly Glu Leu Pro Ala Thr Gln Ser Pro Ile Pro Ser		
290	295	300
Thr Ile Arg Ser Val Gly Cys Trp Glu Lys Ala Glu Leu Gly Asp Lys		
305	310	315
Glu Asn Ser Ser Ala Gly Thr Leu Pro Ser Asp Leu Gly Ala Ser Lys		
325	330	335
Gly Lys Glu Pro Glu Pro Ala Ser Leu Ala Ser Ser His Ser Leu Pro		
340	345	350
Arg Arg His Ala Met Pro Ser Thr Leu Ser Val Ser Val His Glu		
355	360	365

&lt;210&gt; 2519

&lt;211&gt; 626

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2519

Met Ser Lys Lys Gly Arg Ser Lys Gly Glu Lys Pro Glu Met Glu Thr		
1	5	10
Asp Ala Val Gln Met Ala Asn Glu Glu Leu Arg Ala Lys Leu Thr Ser		
20	25	30
Ile Gln Ile Glu Phe Gln Gln Glu Lys Ser Lys Val Gly Lys Leu Arg		
35	40	45
Glu Arg Leu Gln Glu Ala Lys Leu Glu Arg Glu Gln Glu Gln Arg Arg		
50	55	60
His Thr Ala Tyr Ile Ser Glu Leu Lys Ala Lys Leu His Glu Glu Lys		
65	70	75
Thr Lys Glu Leu Gln Ala Leu Arg Glu Gly Leu Ile Arg Gln His Glu		
85	90	95
Gln Glu Ala Ala Arg Thr Ala Lys Ile Lys Glu Gly Glu Leu Gln Arg		
100	105	110
Leu Gln Ala Thr Leu Asn Val Leu Arg Asp Gly Ala Ala Asp Lys Val		
115	120	125
Lys Thr Ala Leu Leu Thr Glu Ala Arg Glu Glu Ala Arg Arg Ala Phe		

130	135	140	
Asp Gly Glu Arg Leu Arg Leu Gln Gln Glu Ile Leu Glu Leu Lys Ala			
145	150	155	160
Ala Arg Lys Gln Ala Glu Glu Ala Leu Ser Asn Cys Met Gln Ala Asp			
	165	170	175
Lys Thr Lys Ala Ala Asp Leu Arg Ala Ala Tyr Gln Ala His Gln Asp			
	180	185	190
Glu Val His Arg Ile Lys Arg Glu Cys Glu Arg Asp Ile Arg Arg Leu			
195	200	205	
Met Asp Glu Ile Lys Gly Lys Asp Arg Val Ile Leu Ala Ser Glu Lys			
210	215	220	
Glu Leu Gly Val Gln Ala Gly Gln Thr Gln Lys Leu Leu Leu Gln Lys			
225	230	235	240
Glu Ala Leu Asp Glu Gln Leu Val Gln Val Lys Glu Ala Glu Arg His			
	245	250	255
His Ser Ser Pro Lys Arg Glu Leu Pro Pro Gly Ile Gly Asp Met Val			
	260	265	270
Glu Leu Met Gly Val Gln Asp Gln His Met Asp Glu Arg Asp Val Arg			
275	280	285	
Arg Phe Gln Leu Lys Ile Ala Glu Leu Asn Ser Val Ile Arg Lys Leu			
290	295	300	
Glu Asp Arg Asn Thr Leu Leu Ala Asp Glu Arg Asn Glu Leu Leu Lys			
305	310	315	320
Arg Ser Arg Glu Thr Glu Val Gln Leu Lys Pro Leu Val Glu Lys Asn			
	325	330	335
Lys Arg Met Asn Lys Lys Asn Glu Asp Leu Leu Gln Ser Ile Gln Arg			
	340	345	350
Met Glu Glu Lys Ile Lys Asn Leu Thr Arg Glu Asn Ala Glu Met Lys			
355	360	365	
Glu Lys Leu Ser Ala Gln Ala Ser Leu Lys Arg His Thr Ser Leu Asn			
370	375	380	
Asp Leu Ser Leu Thr Arg Asp Glu Gln Glu Ile Glu Phe Leu Arg Leu			
385	390	395	400
Gln Val Leu Glu Gln Gln His Val Ile Asp Asp Leu Ser Leu Glu Arg			
	405	410	415
Glu Arg Leu Leu Arg Ser Lys Arg His Arg Gly Lys Ser Leu Lys Pro			

420	425	430
Pro Lys Lys His Val Val Glu Thr Phe Phe Gly Phe Asp Glu Glu Ser		
435	440	445
Val Asp Ser Glu Thr Leu Ser Glu Thr Ser Tyr Asn Thr Asp Arg Thr		
450	455	460
Asp Arg Thr Pro Ala Thr Pro Glu Glu Asp Leu Asp Asp Ala Thr Ala		
465	470	475
Arg Glu Glu Ala Asp Leu Arg Phe Cys Gln Leu Thr Arg Glu Tyr Gln		
485	490	495
Ala Leu Gln Arg Ala Tyr Ala Leu Leu Gln Glu Gln Val Gly Gly Thr		
500	505	510
Leu Asp Ala Glu Arg Glu Ala Arg Thr Arg Glu Gln Leu Gln Ala Asp		
515	520	525
Leu Leu Arg Cys Gln Ala Lys Ile Glu Asp Leu Glu Lys Leu Leu Val		
530	535	540
Glu Lys Gly Gln Asp Ser Lys Trp Val Glu Glu Lys Gln Leu Leu Ile		
545	550	555
Arg Thr Asn Gln Asp Leu Leu Glu Lys Ile Tyr Arg Leu Glu Met Glu		
565	570	575
Glu Asn Gln Leu Lys Asn Glu Met Gln Asp Ala Lys Asp Gln Asn Glu		
580	585	590
Leu Leu Glu Phe Arg Val Leu Glu Leu Glu Val Arg Asp Ser Ile Cys		
595	600	605
Cys Lys Leu Ser Asn Gly Ala Asp Ile Leu Phe Glu Pro Lys Leu Lys		
610	615	620
Phe Met		
625		

&lt;210&gt; 2520

&lt;211&gt; 169

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2520

Met Gly Leu Val Leu Pro Trp Ser Ala Asp Asp Asp Ser Pro Ser Arg

1	5	10	15
Ala Thr Leu Gly Asn Met Lys Gln Val Trp Arg Val Gly Cys Val Pro			
20	25	30	
Ala Leu Val Gly Pro Val Gly Leu Glu His Ala Phe Arg Gly Ser Val			
35	40	45	
Trp Ala Glu Ala Arg Pro Thr Thr Gln Cys Gln Ser Gln Arg Arg Gly			
50	55	60	
Pro Thr Thr Lys Ala Lys Leu Asp Gln Val Ser Ile Ala Met Ala Gln			
65	70	75	80
Cys Ala Pro Trp Pro Leu Lys Ile Pro Leu Cys Arg Val Cys Arg Asp			
85	90	95	
Leu Asp Cys Lys Gly Pro Ser Leu Gln Val Trp Lys His Leu Pro Ile			
100	105	110	
Arg Ala Leu Ser Pro Ser Gly Ser Gly Leu Gln Gly Ala Ala Gly Phe			
115	120	125	
Thr Ala Leu Gln Leu Gly Ser Gln Leu Ser Pro Arg Val Leu Val Glu			
130	135	140	
Pro Ser Arg Gly Gly Trp Arg Val Gly Phe Lys Gly Asp Gly Asn Thr			
145	150	155	160
Trp Gly Arg Ser Trp Asn Leu Val Ala			
165			

&lt;210&gt; 2521

&lt;211&gt; 278

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2521

Met Ala Met Ser Leu Leu Gln Asp Trp Cys Arg Ser Leu Asp Val Asp			
1	5	10	15
Ala His Arg Ala Leu Leu Val Thr Gly Ile Pro Glu Gly Leu Glu Gln			
20	25	30	
Ala Asp Val Glu Ala Val Leu Gln Pro Thr Leu Leu Pro Leu Gly Thr			
35	40	45	
Phe Arg Leu Arg His Met Lys Ala Leu Met Asn Glu Lys Ala Gln Ala			

50	55	60
Ala Leu Val Glu Phe Val Glu Asp Val Asn His Ala Ala Ile Pro Arg		
65	70	75
Glu Ile Pro Gly Lys Asp Gly Val Trp Arg Val Leu Trp Lys Asp Arg		80
	85	90
Ala Gln Asp Thr Arg Val Leu Arg Gln Met Arg Arg Leu Leu Leu Asp		95
	100	105
Asp Gly Pro Thr Gln Ala Ala Glu Ala Gly Thr Pro Gly Glu Ala Pro		110
	115	120
Thr Pro Pro Ala Ser Glu Thr Gln Ala Gln Asp Ser Gly Glu Val Thr		125
	130	135
Gly Gln Ala Gly Ser Leu Leu Gly Ala Ala Arg Asn Pro Arg Arg Gly		140
145	150	155
Arg Arg Gly Arg Arg Asn Arg Thr Arg Arg Asn Arg Leu Thr Gln Lys		160
	165	170
Gly Lys Lys Arg Ser Arg Gly Gly Arg Pro Ser Ala Pro Ala Arg Ser		175
	180	185
Glu Ala Glu Asp Ser Ser Asp Glu Ser Leu Gly Ile Val Ile Glu Glu		190
	195	200
Ile Asp Gln Gly Asp Leu Ser Gly Glu Glu Asp Gln Ser Ala Leu Tyr		205
	210	215
Ala Thr Leu Gln Ala Ala Ala Arg Glu Leu Val Arg Gln Trp Ala Pro		220
225	230	235
Cys Asn Ser Glu Gly Ala Cys Pro Thr Cys Pro Trp Glu Gly Ile Gly		240
	245	250
Gly Phe Gly Cys Asp Leu Thr Val Gln Thr Arg Leu Ser Gln Ser Tyr		255
	260	265
Val Arg Asp Thr Gln Met		270
	275	

&lt;210&gt; 2522

&lt;211&gt; 518

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2522

Met Val Gln Leu Val Leu Gln Tyr Arg Asp Tyr Gln Arg Ala Thr Gln  
 1 5 10 15  
 Arg Leu Ala Gly Ile Pro Glu Leu Leu Asn Lys Leu Arg Gln Ala Pro  
 20 25 30  
 Asp Phe Tyr Val Glu Met Lys Trp Glu Phe Thr Ser Trp Val Pro Leu  
 35 40 45  
 Val Ser Lys Met Cys Pro Ser Asp Val Tyr Arg Val Trp Lys Arg Gly  
 50 55 60  
 Glu Ser Leu Arg Val Asp Thr Ser Leu Leu Gly Phe Glu His Val Thr  
 65 70 75 80  
 Trp Gln Arg Gly Arg Arg Ser Phe Ile Phe Lys Gly Gln Glu Ala Gly  
 85 90 95  
 Ala Leu Val Met Glu Val Asp His Asp Arg Gln Val Val His Val Glu  
 100 105 110  
 Thr Leu Gly Leu Thr Leu Gln Glu Pro Glu Thr Leu Leu Ala Ala Met  
 115 120 125  
 Arg Pro Ser Glu Glu His Val Ala Ser Arg Leu Thr Ser Pro Ile Val  
 130 135 140  
 Ser Thr His Leu Asp Thr Arg Asn Val Ala Phe Glu Arg Asn Lys Cys  
 145 150 155 160  
 Gly Ile Trp Gly Trp Arg Ser Glu Lys Met Glu Thr Val Ser Gly Tyr  
 165 170 175  
 Glu Ala Lys Val Tyr Ser Ala Thr Asn Val Glu Leu Val Thr Arg Thr  
 180 185 190  
 Arg Thr Glu His Leu Ser Asp Gln Asp Lys Ser Arg Ser Lys Ala Gly  
 195 200 205  
 Lys Thr Pro Phe Gln Ser Phe Leu Gly Met Ala Gln Gln His Ser Ser  
 210 215 220  
 His Thr Gly Ala Pro Val Gln Gln Ala Ala Ser Pro Thr Asn Pro Thr  
 225 230 235 240  
 Ala Ile Ser Pro Glu Glu Tyr Phe Asp Pro Asn Phe Ser Leu Glu Ser  
 245 250 255  
 Arg Asn Ile Gly Arg Pro Ile Glu Met Ser Ser Lys Val Gln Arg Phe  
 260 265 270  
 Lys Ala Thr Leu Trp Leu Ser Glu Glu His Pro Leu Ser Leu Gly Asp



275	280	285
Gln Val Thr Pro Ile Ile Asp Leu Met Ala Ile Ser Asn Ala His Phe		
290	295	300
Ala Lys Leu Arg Asp Phe Ile Thr Leu Arg Leu Pro Pro Gly Phe Pro		
305	310	315
Val Lys Ile Glu Ile Pro Leu Phe His Val Leu Asn Ala Arg Ile Thr		
325	330	335
Phe Ser Asn Leu Cys Gly Cys Asp Glu Pro Leu Ser Ser Val Trp Val		
340	345	350
Pro Ala Pro Ser Ser Ala Val Ala Ala Ser Gly Asn Pro Phe Pro Cys		
355	360	365
Glu Val Asp Pro Thr Val Phe Glu Val Pro Asn Gly Tyr Ser Val Leu		
370	375	380
Gly Met Glu Arg Asn Glu Pro Leu Arg Asp Glu Asp Asp Asp Leu Leu		
385	390	395
Gln Phe Ala Ile Gln Gln Ser Leu Leu Glu Ala Gly Thr Glu Ala Glu		
405	410	415
Gln Val Thr Val Trp Glu Ala Leu Thr Asn Thr Arg Pro Gly Ala Arg		
420	425	430
Pro Pro Pro Gln Ala Thr Val Tyr Glu Glu Gln Leu Gln Leu Glu Arg		
435	440	445
Ala Leu Gln Glu Ser Leu Gln Leu Ser Thr Glu Pro Arg Gly Pro Gly		
450	455	460
Ser Pro Pro Arg Thr Pro Pro Ala Pro Gly Pro Pro Ser Phe Glu Glu		
465	470	475
Gln Leu Arg Leu Ala Leu Glu Leu Ser Ser Arg Glu Gln Glu Glu Arg		
485	490	495
Glu Arg Arg Gly Gln Gln Glu Glu Glu Asp Leu Gln Arg Ile Leu Gln		
500	505	510
Leu Ser Leu Thr Glu His		
515		

&lt;210&gt; 2523

&lt;211&gt; 103

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2523

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Met Thr Ala Pro Ala Arg Arg Ser Arg Ser Leu Arg Pro Gly Met Trp
 1             5             10             15
Ser Pro Lys Glu Trp Trp Glu Pro Gln Pro Gly Arg Asp Ala Ala Ala
      20             25             30
Ala Arg Ala Arg Ser Pro Tyr Pro Gly His Leu Trp Lys Pro Ala His
      35             40             45
Leu Leu His Gln Pro Phe Pro Asn Thr Val Val Pro Pro Leu Pro Ser
      50             55             60
Leu Leu Lys Asn Arg Ile Val Trp Gly Ser Gly Ile Phe Trp Thr Pro
      65             70             75             80
Gly Thr Pro Ile Arg Leu Pro Leu Val Pro Leu Leu Gln Ser Asn Glu
      85             90             95
Val Cys Phe Gly Phe Val Tyr
      100

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<210> 2524

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2524

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Met Gly Thr Arg Ser Phe Cys Pro Ile Met Gly Thr Arg Ser Phe Cys
 1             5             10             15
Pro Ile Val Gly Ser Thr Leu Leu Leu Pro Asn His Trp Ala His Ala
      20             25             30
Pro Ser Ala Arg Ser Leu Gly Ser Arg Ser Phe Cys Pro Ile Leu Gly
      35             40             45
Ala Arg Ser Phe Cys Pro Ile Val Gly Arg Thr Leu Leu Leu Pro Asp
      50             55             60
Arg Trp Ala His Ala Pro Ser Ala Arg Ser Leu Gly Ala Arg Ser Phe
      65             70             75             80
Cys Pro Ile Val Gly Ser Thr Leu Leu Leu Pro Asp Arg Trp Ala His

```

	85		90		95										
Ala	Pro	Ser	Ala	Arg	Ser	Leu	Gly	Ala	Arg	Phe	Phe	Cys	Leu	Ile	Val
	100		105		110										
Gly	Arg	Thr	Leu	Leu	Leu	Pro	Asp	Arg	Trp	Ala	His	Ala	Pro	Ser	Ala
	115		120		125										

&lt;210&gt; 2525

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2525

Met	Ala	Ser	Gln	Pro	Glu	Ala	Thr	Ala	Gly	His	His	Leu	Gly	Pro	Ala
1			5						10					15	
Ser	Pro	Pro	Thr	Arg	Gly	Arg	Gln	Ser	Pro	Pro	Ser	Leu	Val	Gly	Asp
			20					25					30		
Gly	Asn	Arg	Ala	Cys	Cys	Cys	His	Leu	Ala	Ala	Asn	Ser	Gly	Asn	Glu
		35					40						45		
Ser	Arg	His	Ala	His	Tyr	Pro	Ala	Thr	Leu	Pro	Ile	Leu	Thr	Leu	Tyr
	50					55					60				
Val	Lys	Gln	Asn	Ser	Arg	Phe	Arg	Ser	Glu	Leu	Ser	Glu	Gly	Val	Val
	65				70					75				80	
Pro	Val	Leu	Leu	Val	Gly	Lys	Leu	Arg	Leu	Arg	Glu	Ala	Glu	Asp	Leu
				85					90					95	
Pro	Lys	Ile	Thr	Pro	Pro	Gly	Pro	Arg	Ile	Gln	Ala	Gln	Ala	Cys	Pro
		100						105					110		
Gly	Ser	Leu	Trp	Pro	Pro	Gly	Cys	Glu	Glu	Ala	Ala	Arg	Asp	Gln	Val
		115					120						125		
Pro	Pro	Phe													
		130													

&lt;210&gt; 2526

&lt;211&gt; 842

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2526

Met Asp Phe Lys Val Gly Ala Asp Gly Thr Val Phe Ala Ala Arg Glu  
 1 5 10 15  
 Leu Gln Val Pro Ser Glu Gln Val Ala Phe Thr Val Thr Ala Trp Asp  
 20 25 30  
 Ser Gln Thr Ala Glu Lys Trp Asp Ala Val Val Arg Leu Leu Val Ala  
 35 40 45  
 Gln Thr Ser Ser Pro His Ser Gly His Lys Pro Gln Lys Gly Lys Lys  
 50 55 60  
 Val Val Ala Leu Asp Pro Ser Pro Pro Pro Lys Asp Thr Leu Leu Pro  
 65 70 75 80  
 Trp Pro Gln His Gln Asn Ala Asn Gly Leu Arg Arg Arg Lys Arg Asp  
 85 90 95  
 Trp Val Ile Pro Pro Ile Asn Val Pro Glu Asn Ser Arg Gly Pro Phe  
 100 105 110  
 Pro Gln Gln Leu Val Arg Ile Arg Ser Asp Lys Asp Asn Asp Ile Pro  
 115 120 125  
 Ile Arg Tyr Ser Ile Thr Gly Val Gly Ala Asp Gln Pro Pro Met Glu  
 130 135 140  
 Val Phe Ser Ile Asp Ser Met Ser Gly Arg Met Tyr Val Thr Arg Pro  
 145 150 155 160  
 Met Asp Arg Glu Glu His Ala Ser Tyr His Leu Arg Ala His Ala Val  
 165 170 175  
 Asp Met Asn Gly Asn Lys Val Glu Asn Pro Ile Asp Leu Tyr Ile Tyr  
 180 185 190  
 Val Ile Asp Met Asn Asp Asn Arg Pro Glu Phe Ile Asn Gln Val Tyr  
 195 200 205  
 Asn Gly Ser Val Asp Glu Gly Ser Lys Pro Gly Thr Tyr Val Met Thr  
 210 215 220  
 Val Thr Ala Asn Asp Ala Asp Asp Ser Thr Thr Ala Asn Gly Met Val  
 225 230 235 240  
 Arg Tyr Arg Ile Val Thr Gln Thr Pro Gln Ser Pro Ser Gln Asn Met  
 245 250 255  
 Phe Thr Ile Asn Ser Glu Thr Gly Asp Ile Val Thr Val Ala Ala Gly

260	265	270
Leu Asp Arg Glu Lys Val Gln Gln Tyr Thr Val Ile Val Gln Ala Thr		
275	280	285
Asp Met Glu Gly Asn Leu Asn Tyr Gly Leu Ser Asn Thr Ala Thr Ala		
290	295	300
Ile Ile Thr Val Thr Asp Val Asn Asp Asn Pro Pro Glu Phe Thr Ala		
305	310	315
Ser Thr Phe Ala Gly Glu Val Pro Glu Asn Arg Val Glu Thr Val Val		
325	330	335
Ala Asn Leu Thr Val Met Asp Arg Asp Gln Pro His Ser Pro Asn Trp		
340	345	350
Asn Ala Val Tyr Arg Ile Ile Ser Gly Asp Pro Ser Gly His Phe Ser		
355	360	365
Val Arg Thr Asp Pro Val Thr Asn Glu Gly Met Val Thr Val Val Lys		
370	375	380
Ala Val Asp Tyr Glu Leu Asn Arg Ala Phe Met Leu Thr Val Met Val		
385	390	395
Ser Asn Gln Ala Pro Leu Ala Ser Gly Ile Gln Met Ser Phe Gln Ser		
405	410	415
Thr Ala Gly Val Thr Ile Ser Ile Met Asp Ile Ser Glu Ala Pro Tyr		
420	425	430
Phe Pro Ser Asn His Lys Leu Ile Arg Leu Glu Glu Gly Val Pro Pro		
435	440	445
Gly Thr Val Leu Thr Thr Phe Ser Ala Val Asp Pro Asp Arg Phe Met		
450	455	460
Gln Arg Ala Val Arg Tyr Ser Lys Leu Ser Asp Pro Ala Ser Trp Leu		
465	470	475
His Ile Asn Ala Thr Asn Gly Gln Ile Thr Thr Ala Ala Val Leu Asp		
485	490	495
Arg Glu Ser Leu Tyr Thr Lys Asn Asn Val Tyr Glu Ala Thr Phe Leu		
500	505	510
Ala Ala Asp Asn Gly Ile Pro Pro Ala Ser Gly Thr Gly Thr Leu Gln		
515	520	525
Ile Tyr Leu Ile Asp Ile Asn Asp Asn Ala Pro Glu Leu Leu Pro Lys		
530	535	540
Glu Ala Gln Ile Cys Glu Lys Pro Asn Leu Asn Ala Ile Asn Ile Thr		

545	550	555	560
Ala Ala Asp Ala Asp Val Asp Pro Asn Ile Gly Pro Tyr Val Phe Glu			
	565	570	575
Leu Pro Phe Val Pro Ala Ala Val Arg Lys Asn Trp Thr Ile Thr Arg			
	580	585	590
Leu Asn Gly Asp Tyr Ala Gln Leu Ser Leu Arg Ile Leu Tyr Leu Glu			
	595	600	605
Ala Gly Met Tyr Asp Val Pro Ile Ile Val Thr Asp Ser Gly Asn Pro			
610	615	620	
Pro Leu Ser Asn Thr Ser Ile Ile Lys Val Lys Val Cys Pro Cys Asp			
625	630	635	640
Asp Asn Gly Asp Cys Thr Thr Ile Gly Ala Val Ala Ala Ala Gly Leu			
	645	650	655
Gly Thr Gly Ala Ile Val Ala Ile Leu Ile Cys Ile Leu Ile Leu Leu			
	660	665	670
Thr Met Val Leu Leu Phe Val Met Trp Met Lys Arg Arg Glu Lys Glu			
	675	680	685
Arg His Thr Lys Gln Leu Leu Ile Asp Pro Glu Asp Asp Val Arg Asp			
690	695	700	
Asn Ile Leu Lys Tyr Asp Glu Glu Gly Gly Gly Glu Glu Asp Gln Asp			
705	710	715	720
Tyr Asp Leu Ser Gln Leu Gln Gln Pro Glu Ala Met Gly His Val Pro			
	725	730	735
Ser Lys Ala Pro Gly Val Arg Arg Val Asp Glu Arg Pro Val Gly Ala			
	740	745	750
Glu Pro Gln Tyr Pro Ile Arg Pro Met Val Pro His Pro Gly Asp Ile			
	755	760	765
Gly Asp Phe Ile Asn Glu Gly Leu Arg Ala Ala Asp Asn Asp Pro Thr			
770	775	780	
Ala Pro Pro Tyr Asp Ser Leu Leu Val Phe Asp Tyr Glu Gly Ser Gly			
785	790	795	800
Ser Thr Ala Gly Ser Val Ser Ser Leu Asn Ser Ser Ser Ser Gly Asp			
	805	810	815
Gln Asp Tyr Asp Tyr Leu Asn Asp Trp Gly Pro Arg Phe Lys Lys Leu			
	820	825	830
Ala Asp Met Tyr Gly Gly Gly Glu Glu Asp			

835

840

&lt;210&gt; 2527

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2527

Met His Ala Ala Ala His Pro Gly Leu Cys Pro Leu Arg Leu Cys His  
 1 5 10 15  
 Asp Thr Ala Asp Arg Ala Gly Glu Ala Ala Pro Ala Leu Lys Val Ala  
 20 25 30  
 Ala Ala Phe Arg Ala Gly Trp Arg Asp Leu Pro His Ser Pro Thr Leu  
 35 40 45  
 Gly Leu Arg Gly Pro Gly Lys Pro Leu Gln Glu Gly Thr Arg Ser Ser  
 50 55 60  
 Ser Gly Phe Trp Ser Gly Val Pro Ala Ala Ala Glu Ala Ser Gly Gly  
 65 70 75 80  
 Asn Thr Thr Lys Lys Gly Arg Gln Leu Gly Pro Ser Lys Gly Val Ala  
 85 90 95  
 Thr Arg Ala Gln Gln Pro Arg Ser Val Thr Ala Gln Ser Ser Ala Pro  
 100 105 110  
 Ala Phe Pro Ser Leu Cys Gln Gly Leu Met Ala Lys Pro Ala Leu Gly  
 115 120 125  
 Ala Phe Phe Pro Val Pro Ile Trp Leu Leu Cys Cys Thr Lys Leu Gly  
 130 135 140  
 Ser Gln Pro Ala Lys Ser Arg Leu Gly Leu Ala Ser Pro Leu Ala Gly  
 145 150 155 160  
 Leu Glu Val Gly Arg Val Gly Cys Gly Ala Ser Ser Leu Cys Val Gly  
 165 170 175  
 Pro Gly Arg Trp Leu Lys Ser Pro Leu Gln Glu Arg Ile Lys Val Ser  
 180 185 190  
 Arg Val Val Arg Lys Pro Glu Ser Gly Ser Pro Asp Ser Ser Leu Trp  
 195 200 205  
 Gly Ala Phe Phe Met Phe Ser Gln Leu Phe Gln Asp Trp Ala Val Glu





His Gly Gly Gly Gly Gly Gly Gly Gly Ala Gln Asp Lys Arg Ser Gly Phe  
 195 200 205  
 Leu Thr Leu Gly Tyr Arg Gly Ser Tyr Thr Thr Val Arg Asp Asn Gln  
 210 - 215 220  
 Ala Asp Ala Lys Phe Arg Arg Val Ala Arg Ile Met Val Cys Gly Arg  
 225 230 235 240  
 Ile Ala Leu Ala Lys Glu Val Phe Gly Asp Thr Leu Asn Glu Ser Arg  
 245 250 255  
 Asp Pro Asp Arg Gln Pro Glu Lys Tyr Thr Ser Arg Phe Tyr Leu Lys  
 260 265 270  
 Phe Thr Tyr Leu Glu Gln Ala Phe Asp Arg Leu Ser Glu Ala Gly Phe  
 275 280 285  
 His Met Val Ala Cys Asn Ser Ser Gly Thr Ala Ala Phe Val Asn Gln  
 290 295 300  
 Tyr Arg Asp Asp Lys Ile Trp Ser Ser Tyr Thr Glu Tyr Ile Phe Phe  
 305 310 315 320  
 Arg Pro Pro Gln Lys Ile Val Ser Pro Lys Gln Glu His Glu Asp Arg  
 325 330 335  
 Lys His Asp Lys Val Thr Asp Lys Gly Ser Glu Ser Gly Thr Ser Cys  
 340 345 350  
 Asn Glu Leu Ser Thr Ser Ser Cys Asp Ser His Ser Glu Ala Ser Thr  
 355 360 365  
 Pro Gln Asp Asn Pro Ser Ser Ala Gln Gln Ala Thr Ala His Gln Pro  
 370 375 380  
 Asn Thr Leu Thr Leu Asp Arg Pro Ser Lys Lys Ala Pro Val Gln Trp  
 385 390 395 400  
 Ile Pro Pro Pro Asp Lys Arg Arg Asn Ser Glu Leu Phe Gln Thr Leu  
 405 410 415  
 Ile Ser Lys Ser Arg Glu Thr Asn Leu Ser Lys Lys Lys Val Cys Glu  
 420 425 430  
 Lys Leu Ser Val Glu Glu Glu Met Lys Lys Cys Ile Gln Asp Phe Lys  
 435 440 445  
 Lys Ile His Ile Pro Asp Tyr Phe Pro Glu Arg Lys Arg Gln Trp Gln  
 450 455 460  
 Ser Glu Leu Leu Gln Lys Tyr Gly Leu  
 465 470

&lt;210&gt; 2529

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2529

Met Asp Val Gly Phe Gln Gly Arg Cys Ser Arg Trp Ser Arg Ala Leu

1 5 10 15

Arg Gly Arg Tyr Ser Ser Ala Glu Arg Lys Arg Arg Ala Arg Gln Pro

20 25 30

Arg Glu Pro Arg Glu Gln Ala Pro Arg Val Ser Ala Pro Pro Gly Arg

35 40 45

Leu Pro Ala Phe Phe Pro Gln Phe Ala Leu Leu Pro Gln Ser Gly Pro

50 55 60

Arg Leu Ile Leu Cys Thr Cys Glu Trp Ala His Thr Ser Ser Pro Gly

65 70 75 80

Thr Ile Leu Ser Ser Ile Ser Leu Gly Glu Ser Thr Phe Leu Thr Ile

85 90 95

Asn Leu Leu Ala Thr Ala Gly Lys Val Ala Gly Cys Glu Trp Gly Gly

100 105 110

Glu Gly Arg Phe Thr Arg Ser Glu Ala Pro Lys Leu Ala Ala Ser Ala

115 120 125

Lys Arg Leu Cys Phe Leu Arg Phe Leu Thr Asn Lys Trp Gly Gly Met

130 135 140

Leu Ala Trp Pro Pro Ala Ala Pro Ala Arg Ala Leu Gly Ser Leu Ser

145 150 155 160

Ser Leu Met Pro Ser Phe Arg Arg Ser Pro Ala Ala Leu Thr Pro Gly

165 170 175

Leu Leu Arg Pro Leu Ala Lys Val Cys Ser Pro Met Asp Ala Gly Arg

180 185 190

Gly Leu Ser Leu Ser Ala Leu Thr Gln Leu Arg Leu Lys Pro Gln Ser

195 200 205

Ser His Leu Leu Pro Pro Val Tyr Pro Pro Ala Pro Leu Pro Pro Pro

210                      215                      220  
 Lys Asp Val Pro Leu Gln  
 225                      230  
  
 <210> 2530  
 <211> 602  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 2530  
 Met Glu Ser His Ser Arg Ala Gly Lys Ser Arg Lys Ser Ala Lys Phe  
   1                      5                      10                      15  
 Arg Ser Ile Ser Arg Ser Leu Met Leu Cys Asn Ala Lys Thr Ser Asp  
                     20                      25                      30  
 Asp Gly Ser Ser Pro Asp Glu Lys Tyr Pro Asp Pro Phe Glu Ile Ser  
                     35                      40                      45  
 Leu Ala Gln Gly Lys Glu Gly Ile Phe His Ser Ser Val Gln Leu Ala  
                     50                      55                      60  
 Asp Thr Ser Glu Ala Gly Pro Ser Ser Val Pro Asp Leu Ala Leu Ala  
   65                      70                      75                      80  
 Ser Glu Ala Ala Gln Leu Gln Ala Ala Gly Asn Asp Arg Gly Lys Thr  
                     85                      90                      95  
 Cys Arg Arg Ile Phe Phe Met Lys Glu Ser Ser Thr Ala Ser Ser Arg  
                     100                      105                      110  
 Glu Lys Pro Gly Lys Leu Glu Ala Gln Ser Ser Asn Phe Leu Phe Pro  
                     115                      120                      125  
 Lys Ala Cys His Gln Arg Ala Arg Ser Asn Ser Thr Ser Val Asn Pro  
                     130                      135                      140  
 Tyr Cys Thr Arg Glu Ile Asp Phe Pro Met Thr Lys Lys Ser Ala Ala  
   145                      150                      155                      160  
 Pro Thr Asp Arg Gln Pro Tyr Ser Leu Cys Ser Asn Arg Lys Ser Leu  
                     165                      170                      175  
 Ser Gln Gln Leu Asp Cys Pro Ala Gly Lys Ala Ala Gly Thr Ser Arg  
                     180                      185                      190  
 Pro Thr Arg Ser Leu Ser Thr Ala Gln Leu Val Gln Pro Ser Gly Gly

195	200	205
Leu Gln Ala Ser Val Ile Ser Asn Ile Val Leu Met Lys Gly Gln Ala		
210	215	220
Lys Gly Leu Gly Phe Ser Ile Val Gly Gly Lys Asp Ser Ile Tyr Gly		
225	230	235
Pro Ile Gly Ile Tyr Val Lys Thr Ile Phe Ala Gly Gly Ala Ala Ala		
245	250	255
Ala Asp Gly Arg Leu Gln Glu Gly Asp Glu Ile Leu Glu Leu Asn Gly		
260	265	270
Glu Ser Met Ala Gly Leu Thr His Gln Asp Ala Leu Gln Lys Phe Lys		
275	280	285
Gln Ala Lys Lys Gly Leu Leu Thr Leu Thr Val Arg Thr Arg Leu Thr		
290	295	300
Ala Pro Pro Ser Leu Cys Ser His Leu Ser Pro Pro Leu Cys Arg Ser		
305	310	315
Leu Ser Ser Ser Thr Cys Ile Thr Lys Asp Ser Ser Ser Phe Ala Leu		
325	330	335
Glu Ser Pro Ser Ala Pro Ile Ser Thr Ala Lys Pro Asn Tyr Arg Ile		
340	345	350
Met Val Glu Val Ser Leu Gln Lys Glu Ala Gly Val Gly Leu Gly Ile		
355	360	365
Gly Leu Cys Ser Val Pro Tyr Phe Gln Cys Ile Ser Gly Ile Phe Val		
370	375	380
His Thr Leu Ser Pro Gly Ser Val Ala His Leu Asp Gly Arg Leu Arg		
385	390	395
Cys Gly Asp Glu Ile Val Glu Ile Ser Asp Ser Pro Val His Cys Leu		
405	410	415
Thr Leu Asn Glu Val Tyr Thr Ile Leu Ser His Cys Asp Pro Gly Pro		
420	425	430
Val Pro Ile Ile Val Ser Arg His Pro Asp Pro Gln Val Ser Glu Gln		
435	440	445
Gln Leu Lys Glu Ala Val Ala Gln Ala Val Glu Asn Thr Lys Phe Gly		
450	455	460
Lys Glu Arg His Gln Trp Ser Leu Glu Gly Val Lys Arg Leu Glu Ser		
465	470	475
Ser Trp His Gly Arg Pro Thr Leu Glu Lys Glu Arg Glu Lys Asn Ser		

	485		490		495										
Ala	Pro	Pro	His	Arg	Arg	Ala	Gln	Lys	Val	Met	Thr	Arg	Ser	Ser	Ser
	500					505							510		
Asp	Ser	Ser	Tyr	Met	Ser	Gly	Ser	Pro	Gly	Gly	Ser	Pro	Gly	Ser	Gly
	515					520							525		
Ser	Ala	Glu	Lys	Pro	Ser	Ser	Asp	Val	Asp	Ile	Ser	Thr	His	Ser	Pro
	530					535							540		
Ser	Leu	Pro	Leu	Ala	Arg	Glu	Pro	Val	Val	Leu	Ser	Ile	Ala	Ser	Ser
545					550					555				560	
Arg	Leu	Pro	Gln	Glu	Ser	Pro	Pro	Leu	Pro	Glu	Ser	Arg	Asp	Ser	His
			565					570					575		
Pro	Pro	Leu	Arg	Leu	Lys	Lys	Ser	Phe	Glu	Ile	Leu	Val	Arg	Lys	Pro
	580							585					590		
Met	Ser	Asn	Ile	Ala	Arg	Pro	Arg	Ser	Pro						
	595					600									

&lt;210&gt; 2531

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2531

Met	His	Thr	His	Lys	His	Met	Cys	Ile	Ser	His	Thr	Arg	Thr	His	Pro
1				5								10			15
Asn	Thr	Cys	Ile	Ser	His	Thr	Cys	Thr	His	Thr	Asn	Thr	Cys	Ile	Ser
			20						25					30	
His	Thr	Cys	Thr	Gln	Thr	Cys	Ile	Ser	His	Thr	Arg	Thr	His	Thr	Gln
		35					40						45		
Thr	Arg	Ala	Tyr	His	Thr	His	Ala	His	Thr	Gln	Thr	Arg	Ala	Tyr	His
	50					55						60			
Thr	Gln	Thr	His	Val	His	Thr	Tyr	Leu	Thr	His	Thr	Cys	Thr	Cys	Cys
65					70					75				80	
Ala	His	Val	His	Thr	His	Val	Val	Val	Cys	Phe	Pro	Ala	Thr	His	Thr
				85						90				95	
Leu	Gly	Leu	His	Trp	Arg	Leu	Phe	His	Pro	Ala	Asn	Val	Asn	Val	Ser

100	105	110
Arg Leu Val Gly Ala Leu Cys Tyr Pro Val Gly Arg Ser His Gln Glu		
115	120	125
Gln Ser Leu Pro Asn Val His Leu Arg Glu Glu Gly Cys Arg Gly Val		
130	135	140
Phe Pro Ala Pro Ala Arg Trp Lys Gly Ser Pro Glu Thr Gly Thr Gln		
145	150	155
Tyr Leu Ser Met Arg Ser Leu Thr Ser Arg Gly Val Gly Lys Leu Asp		
165	170	175
Arg Asp Ser Val Thr His Ser Val Leu Leu Pro Ala Asn Pro Val Cys		
180	185	190
Pro Tyr Arg Ser Thr Arg Arg Ala Val Gly Gly Pro Pro Gly Gly Ser		
195	200	205
Ala Ser Ala Ser Pro Ser His Leu Leu Pro		
210	215	

&lt;210&gt; 2532

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2532

Met Arg Gln Val Leu Arg Pro Val Phe Gln Val Leu Thr Gly Ala Leu		
1	5	10
Gly Ala His Arg Arg Glu Tyr Gly Ser Ala Ala Thr Gly Thr Val His		
20	25	30
Leu Pro Val Cys Gln Ala Gln Ser Met Asp Lys Pro His Ser Arg Ala		
35	40	45
Val His Pro Gly Thr Met His Gly Gln Gln Glu Ser Arg Pro Ala Asp		
50	55	60
Ala Lys Arg Ala Tyr Cys Gln Gly Lys Val Pro Ala Pro Ala His Ser		
65	70	75
Leu Trp Ile Leu Gly Leu Trp Gly Leu Ser Trp Arg Val Ser Leu Trp		
85	90	95
Phe Val Ser Gly Leu Gln Trp Trp Leu Thr Pro Leu Val Arg Lys His		

100	105	110
Ser Trp Glu Val Phe Cys Gly	Ser Lys His Val Ala Pro	Ile Ile Thr
115	120	125
Gly Glu Gln Lys Ala Leu Asp	Thr Pro Phe Gly Met	
130	135	140

&lt;210&gt; 2533

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2533

Met Glu Lys Gly Arg Leu Ser Val	Gly Asp His Val Ala Leu Val Tyr
1	5 10 15
Pro Pro Gly Val Asp Leu Ile Ala	Ala Phe Tyr Gly Cys Leu Tyr Cys
20	25 30
Gly Cys Val Pro Val Thr Val Arg	Pro Pro His Pro Gln Asn Leu Gly
35	40 45
Thr Thr Leu Pro Thr Val Lys Met	Ile Val Glu Val Gly Lys Ser Ala
50	55 60
Cys Val Leu Thr Thr Gln Ala Val	Thr Arg Leu Leu Arg Ser Lys Glu
65	70 75 80
Ala Ala Ala Ala Val Asp Ile Arg	Thr Trp Pro Thr Ile Leu Asp Thr
85	90 95
Asp Asp Ile Pro Lys Lys Lys Ile	Ala Ser Val Phe Arg Pro Pro Ser
100	105 110
Pro Asp Val Leu Ala Tyr Leu Asp	Phe Ser Val Ser Thr Thr Gly Ile
115	120 125
Leu Ala Gly Val Lys Met Ser His	Ala Ala Thr Ser Ala Leu Cys Arg
130	135 140
Ser Ile Lys Leu Gln Cys Glu Leu	Tyr Pro Ser Arg Gln Ile Ala Ile
145	150 155 160
Cys Leu Asp Pro Tyr Cys Gly Leu	Gly Phe Ala Leu Trp Cys Leu Cys
165	170 175
Ser Val Tyr Ser Gly His Gln Ser	Val Leu Val Pro Pro Leu Glu Leu

180	185	190
Glu Ser Asn Val Ser Leu Trp Leu Ser Ala Val Ser Gln Tyr Lys Ala		
195	200	205
Arg Val Thr Phe Cys Ser Tyr Ser Val Met Glu Met Cys Thr Lys Gly		
210	215	220
Leu Gly Ala Gln Thr Gly Val Leu Arg Met Lys Gly Val Asn Leu Ser		
225	230	235
Cys Val Arg Thr Cys Met Val Val Ala Glu Glu Arg Pro Arg Ile Ala		
245	250	255
Leu Thr Gln Ser Phe Ser Lys Leu Phe Lys Asp Leu Gly Leu Pro Ala		
260	265	270
Arg Ala Val Ser Thr Thr Phe Gly Cys Arg Val Asn Val Ala Ile Cys		
275	280	285
Leu Gln Val Arg Cys Leu Gly Pro Ala Val Leu Glu Ser Trp Leu Leu		
290	295	300
Ala Ala Trp Arg Pro Ser Phe Pro Val Val Asn Val Pro Phe Cys Ser		
305	310	315
Arg Leu Ile Tyr Phe Ser Phe Ser Gly Pro Leu Ile Ser His Phe His		
325	330	335

Val Thr Phe

<210> 2534

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2534

Met Ala Glu Glu Glu Lys Pro Ala Ala Leu Pro Glu Lys Glu Cys Gly
1 5 10 15
Ala Ala Lys Ser Ser Asp Gln Pro Lys Gly Leu Ser Lys Gly Gln Met
20 25 30
Glu Ser Ser Ala Glu Ala Gln Ile Val Pro Glu Glu Ser Ala Pro Ala
35 40 45



Gly Ala Pro His Glu Lys Ser Val Lys Glu Val Lys Glu Val Ser Pro  
 50 55 60  
 Glu Val Lys Thr Pro Ser Ser Ala Gly Glu Gly Val Ser Phe Ser Gly  
 65 70 75 80  
 Phe Ala Cys Val Leu Leu Gln Met Ile Ser Pro Val Ala Tyr Gln Pro  
 85 90 95  
 Asp Ala Phe Pro Thr Leu Phe Arg Tyr Phe Ile Ala Gly Ser Tyr Asp  
 100 105 110  
 Asn Lys Ser Thr Val Val Gly Leu Met Cys Arg Glu Cys Gly Leu Arg  
 115 120 125  
 Lys Cys Cys Val Ala Ala Gly Phe Pro Val Leu Gln Leu Ile Ser Gly  
 130 135 140  
 Phe Pro Leu Pro  
 145

<210> 2535

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2535

Met Glu Pro Gly Pro Ala Leu Ala Trp Leu Leu Leu Leu Ser Leu Leu  
 1 5 10 15  
 Ala Asp Cys Leu Lys Ala Ala Gln Ser Arg Asp Phe Thr Val Lys Asp  
 20 25 30  
 Ile Ile Tyr Leu His Pro Ser Thr Thr Pro Tyr Pro Gly Gly Phe Lys  
 35 40 45  
 Cys Phe Thr Cys Glu Lys Ala Ala Asp Asn Tyr Glu Cys Asn Arg Trp  
 50 55 60  
 Ala Pro Asp Ile Tyr Cys Pro Arg Val Thr Arg Tyr Cys Tyr Thr Gln  
 65 70 75 80  
 His Thr Met Glu Val Thr Gly Asn Ser Ile Ser Val Thr Lys Arg Cys  
 85 90 95  
 Val Pro Leu Glu Glu Cys Leu Ser Thr Gly Cys Arg Asp Ser Glu His  
 100 105 110

Glu	Gly	His	Lys	Val	Cys	Thr	Ser	Cys	Cys	Glu	Gly	Asn	Ile	Cys	Asn
115					120					125					
Leu	Pro	Leu	Pro	Arg	Asn	Glu	Thr	Asp	Ala	Thr	Phe	Ala	Thr	Thr	Ser
130					135					140					
Pro	Ile	Asn	Gln	Thr	Asn	Gly	His	Pro	Arg	Cys	Met	Ser	Val	Ile	Val
145					150					155					160
Ser	Cys	Leu	Trp	Leu	Trp	Leu	Gly	Leu	Met	Leu					
165					170										

&lt;210&gt; 2536

&lt;211&gt; 881

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2536

Met	Pro	Asn	Ser	Ala	Ser	Arg	Asp	Glu	Phe	Pro	Cys	Gly	Phe	Thr	Ser
1				5					10					15	
Pro	Ala	Asn	Arg	Gly	Ser	Leu	Ser	Thr	Asp	Lys	Asp	Thr	Ala	Tyr	Gly
			20					25					30		
Ser	Phe	Gln	Asn	Gly	His	Gly	Ile	Lys	Arg	Glu	Asp	Ser	Arg	Gly	Ser
		35					40					45			
Leu	Ile	Pro	Glu	Gly	Ala	Thr	Gly	Phe	Pro	Asp	Gln	Gly	Asn	Thr	Gly
	50					55				60					
Glu	Asn	Thr	Arg	Gln	Ser	Ser	Thr	Arg	Ser	Ser	Val	Ser	Gln	Tyr	Asn
65				70					75					80	
Arg	Leu	Asp	Gln	Tyr	Glu	Ile	Arg	Ser	Leu	Leu	Met	Cys	Tyr	Leu	Tyr
			85						90				95		
Ile	Val	Lys	Met	Ile	Ser	Glu	Asp	Thr	Leu	Leu	Thr	Tyr	Trp	Asn	Lys
		100					105					110			
Val	Ser	Pro	Gln	Glu	Leu	Ile	Asn	Ile	Leu	Ile	Leu	Leu	Glu	Val	Cys
	115					120				125					
Leu	Phe	His	Phe	Arg	Tyr	Met	Gly	Lys	Arg	Asn	Ile	Ala	Arg	Val	His
	130				135				140						
Asp	Ala	Trp	Leu	Ser	Lys	His	Phe	Gly	Ile	Asp	Arg	Lys	Ser	Gln	Thr
145				150					155					160	

Met	Pro	Ala	Leu	Arg	Asn	Arg	Ser	Gly	Val	Met	Gln	Ala	Arg	Leu	Gln
					165					170					175
His	Leu	Ser	Ser	Leu	Glu	Ser	Ser	Phe	Thr	Leu	Asn	His	Ser	Ser	Thr
					180					185					190
Thr	Thr	Glu	Ala	Asp	Ile	Phe	His	Gln	Ala	Leu	Leu	Glu	Gly	Asn	Thr
					195					200					205
Ala	Thr	Glu	Val	Ser	Leu	Thr	Val	Leu	Asp	Thr	Ile	Ser	Phe	Phe	Thr
					210					215					220
Gln	Cys	Phe	Lys	Thr	Gln	Leu	Leu	Asn	Asn	Asp	Gly	His	Asn	Pro	Leu
225					230					235					240
Met	Lys	Lys	Val	Phe	Asp	Ile	His	Leu	Ala	Phe	Leu	Lys	Asn	Gly	Gln
					245					250					255
Ser	Glu	Val	Ser	Leu	Lys	His	Val	Phe	Ala	Ser	Leu	Arg	Ala	Phe	Ile
					260					265					270
Ser	Lys	Phe	Pro	Ser	Ala	Phe	Phe	Lys	Gly	Arg	Val	Asn	Met	Cys	Ala
					275					280					285
Ala	Phe	Cys	Tyr	Glu	Val	Leu	Lys	Cys	Cys	Thr	Ser	Lys	Ile	Ser	Ser
					290					295					300
Thr	Arg	Asn	Glu	Ala	Ser	Ala	Leu	Leu	Tyr	Leu	Leu	Met	Arg	Asn	Asn
305					310					315					320
Phe	Glu	Tyr	Thr	Lys	Arg	Lys	Thr	Phe	Leu	Arg	Thr	His	Leu	Gln	Ile
					325					330					335
Ile	Ile	Ala	Val	Ser	Gln	Leu	Ile	Ala	Asp	Val	Ala	Leu	Ser	Gly	Gly
					340					345					350
Ser	Arg	Phe	Gln	Glu	Ser	Leu	Phe	Ile	Ile	Asn	Asn	Phe	Ala	Asn	Ser
					355					360					365
Asp	Arg	Pro	Met	Lys	Ala	Thr	Ala	Phe	Pro	Ala	Glu	Val	Lys	Asp	Leu
					370					375					380
Thr	Lys	Arg	Ile	Arg	Thr	Val	Leu	Met	Ala	Thr	Ala	Gln	Met	Lys	Glu
385					390					395					400
His	Glu	Lys	Asp	Pro	Glu	Met	Leu	Ile	Asp	Leu	Gln	Tyr	Ser	Leu	Ala
					405					410					415
Lys	Ser	Tyr	Ala	Ser	Thr	Pro	Glu	Leu	Arg	Lys	Thr	Trp	Leu	Asp	Ser
					420					425					430
Met	Ala	Lys	Ile	His	Val	Lys	Asn	Gly	Asp	Phe	Ser	Glu	Ala	Ala	Met
					435					440					445

Cys Tyr Val His Val Ala Ala Leu Val Ala Glu Phe Leu His Arg Lys  
 450 455 460  
 Lys Leu Phe Pro Asn Gly Cys Ser Ala Phe Lys Lys Ile Thr Pro Asn  
 465 470 475 480  
 Ile Asp Glu Glu Gly Ala Met Lys Glu Asp Ala Gly Met Met Asp Val  
 485 490 495  
 His Tyr Ser Glu Glu Val Leu Leu Glu Leu Leu Glu Gln Cys Val Asp  
 500 505 510  
 Gly Leu Trp Lys Ala Glu Arg Tyr Glu Ile Ile Ser Glu Ile Ser Lys  
 515 520 525  
 Leu Ile Val Pro Ile Tyr Glu Lys Arg Arg Glu Phe Glu Lys Leu Thr  
 530 535 540  
 Gln Val Tyr Arg Thr Leu His Gly Ala Tyr Thr Lys Ile Leu Glu Val  
 545 550 555 560  
 Met His Thr Lys Lys Arg Leu Leu Gly Thr Phe Phe Arg Val Ala Phe  
 565 570 575  
 Tyr Gly Gln Ser Phe Phe Glu Glu Glu Asp Gly Lys Glu Tyr Ile Tyr  
 580 585 590  
 Lys Glu Pro Lys Leu Thr Gly Leu Ser Glu Ile Ser Leu Arg Leu Val  
 595 600 605  
 Lys Leu Tyr Gly Glu Lys Phe Gly Thr Glu Asn Val Lys Ile Ile Gln  
 610 615 620  
 Asp Ser Asp Lys Val Asn Ala Lys Glu Leu Asp Pro Lys Tyr Ala His  
 625 630 635 640  
 Ile Gln Val Thr Tyr Val Lys Pro Tyr Phe Asp Asp Lys Glu Leu Thr  
 645 650 655  
 Glu Arg Lys Thr Glu Phe Glu Arg Asn His Asn Ile Ser Gly Phe Val  
 660 665 670  
 Phe Glu Ala Pro Tyr Thr Leu Ser Gly Lys Lys Gln Gly Cys Ile Glu  
 675 680 685  
 Glu Gln Cys Lys Arg Arg Thr Ile Leu Thr Thr Ser Asn Ser Phe Pro  
 690 695 700  
 Tyr Val Lys Lys Arg Ile Pro Ile Asn Cys Glu Gln Gln Ile Asn Leu  
 705 710 715 720  
 Lys Pro Ile Asp Val Ala Thr Asp Glu Ile Lys Asp Lys Thr Ala Glu  
 725 730 735

Leu Gln Lys Leu Cys Ser Ser Thr Asp Val Asp Met Ile Gln Leu Gln  
                     740                    745                    750  
 Leu Lys Leu Gln Gly Cys Val Ser Val Gln Val Asn Ala Gly Pro Leu  
                     755                    760                    765  
 Ala Tyr Ala Arg Ala Phe Leu Asn Asp Ser Gln Ala Ser Lys Tyr Pro  
                     770                    775                    780  
 Pro Lys Lys Val Ser Glu Leu Lys Asp Met Phe Arg Lys Phe Ile Gln  
                     785                    790                    795                    800  
 Ala Cys Ser Ile Ala Leu Glu Leu Asn Glu Arg Leu Ile Lys Glu Asp  
                     805                    810                    815  
 Gln Val Glu Tyr His Glu Gly Leu Lys Ser Asn Phe Arg Asp Met Val  
                     820                    825                    830  
 Lys Glu Leu Ser Asp Ile Ile His Glu Gln Ile Leu Gln Glu Asp Thr  
                     835                    840                    845  
 Met His Ser Pro Trp Met Ser Asn Thr Leu His Val Phe Cys Ala Ile  
                     850                    855                    860  
 Ser Gly Thr Ser Ser Asp Arg Gly Tyr Gly Ser Pro Arg Tyr Ala Glu  
                     865                    870                    875                    880  
 Val

<210> 2537

<211> 580

<212> PRT

<213> Homo sapiens

<400> 2537

Met His Leu Ser Ala Val Phe Asn Ala Leu Leu Val Ser Val Leu Ala  
     1                    5                    10                    15  
 Ala Val Leu Trp Lys His Val Arg Leu Arg Glu His Ala Ala Thr Leu  
                     20                    25                    30  
 Glu Glu Glu Leu Ala Leu Ser Arg Gln Ala Thr Glu Pro Ala Pro Ala  
                     35                    40                    45  
 Leu Arg Ile Asp Tyr Pro Lys Ala Leu Gln Ile Leu Met Glu Gly Gly  
                     50                    55                    60

Thr His Met Val Cys Thr Gly Arg Thr His Thr Asp Arg Ile Cys Arg  
 65 70 75 80  
 Phe Lys Trp Leu Cys Tyr Ser Asn Glu Ala Glu Glu Phe Ile Phe Phe  
 85 90 95  
 His Gly Asn Thr Ser Val Met Leu Pro Asn Leu Gly Ser Arg Arg Phe  
 100 105 110  
 Gln Pro Ala Leu Leu Asp Leu Ser Thr Val Glu Asp His Asn Thr Gln  
 115 120 125  
 Tyr Phe Asn Phe Val Glu Leu Pro Ala Ala Ala Leu Arg Phe Met Pro  
 130 135 140  
 Lys Pro Val Phe Val Pro Asp Val Ala Leu Ile Ala Asn Arg Phe Asn  
 145 150 155 160  
 Pro Asp Asn Leu Met His Val Phe His Asp Asp Leu Leu Pro Leu Phe  
 165 170 175  
 Tyr Thr Leu Arg Gln Phe Pro Gly Leu Ala His Glu Ala Arg Leu Phe  
 180 185 190  
 Phe Met Glu Gly Trp Gly Glu Gly Ala His Phe Asp Leu Tyr Lys Leu  
 195 200 205  
 Leu Ser Pro Lys Gln Pro Leu Leu Arg Ala Gln Leu Lys Thr Leu Gly  
 210 215 220  
 Arg Leu Leu Cys Phe Ser His Ala Phe Val Gly Leu Ser Lys Ile Thr  
 225 230 235 240  
 Thr Trp Tyr Gln Tyr Gly Phe Val Gln Pro Gln Gly Pro Lys Ala Asn  
 245 250 255  
 Ile Leu Val Ser Gly Asn Glu Ile Arg Gln Phe Ala Arg Phe Met Thr  
 260 265 270  
 Glu Lys Leu Asn Val Ser His Thr Gly Val Pro Leu Gly Glu Glu Tyr  
 275 280 285  
 Ile Leu Val Phe Ser Arg Thr Gln Asn Arg Leu Ile Leu Asn Glu Ala  
 290 295 300  
 Glu Leu Leu Leu Ala Leu Ala Gln Glu Phe Gln Met Lys Thr Val Thr  
 305 310 315 320  
 Val Ser Leu Glu Asp His Thr Phe Ala Asp Val Val Arg Leu Val Ser  
 325 330 335  
 Asn Ala Ser Met Leu Val Ser Met His Gly Ala Gln Leu Val Thr Thr  
 340 345 350

Leu Phe Leu Pro Arg Gly Ala Thr Val Val Glu Leu Phe Pro Tyr Ala  
 355 360 365  
 Val Asn Pro Asp His Tyr Thr Pro Tyr Lys Thr Leu Ala Met Leu Pro  
 370 375 380  
 Gly Met Asp Leu Gln Tyr Val Ala Trp Arg Asn Met Met Pro Glu Asn  
 385 390 395 400  
 Thr Val Thr His Pro Glu Arg Pro Trp Asp Gln Gly Gly Ile Thr His  
 405 410 415  
 Leu Asp Arg Ala Glu Gln Ala Arg Ile Leu Gln Ser Arg Glu Val Pro  
 420 425 430  
 Arg His Leu Cys Cys Arg Asn Pro Glu Trp Leu Phe Arg Ile Tyr Gln  
 435 440 445  
 Asp Thr Lys Val Asp Ile Pro Ser Leu Ile Gln Thr Ile Arg Arg Val  
 450 455 460  
 Val Lys Gly Arg Pro Gly Pro Arg Lys Gln Lys Trp Thr Val Gly Leu  
 465 470 475 480  
 Tyr Pro Gly Lys Val Arg Glu Ala Arg Cys Gln Ala Ser Val His Gly  
 485 490 495  
 Ala Ser Glu Ala Arg Leu Thr Val Ser Trp Gln Ile Pro Trp Asn Leu  
 500 505 510  
 Lys Tyr Leu Lys Val Arg Glu Val Lys Tyr Glu Val Trp Leu Gln Glu  
 515 520 525  
 Gln Gly Glu Asn Thr Tyr Val Pro Tyr Ile Leu Ala Leu Gln Asn His  
 530 535 540  
 Thr Phe Thr Glu Asn Ile Lys Pro Phe Thr Thr Tyr Leu Val Trp Val  
 545 550 555 560  
 Arg Cys Ile Phe Asn Lys Ile Leu Leu Gly Pro Phe Ala Asp Val Leu  
 565 570 575  
 Val Cys Asn Thr  
 580

<210> 2538

<211> 105

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2538

Met Ser Leu Met Ser Val Thr Met Ser Phe Leu Ile Cys Ala Pro Gly  
 1 5 10 15  
 Glu Gly Gly Cys Gly Glu Asp Pro Val Cys Arg His Cys Val Pro Trp  
 20 25 30  
 Gln Ser Arg Gly Ala Pro Cys Gly Trp Pro Ala Lys Val Tyr Val Pro  
 35 40 45  
 Leu Arg Ala Glu Gly Lys Arg Gln Pro Arg Ser Cys Ala Ser Arg His  
 50 55 60  
 Leu Met Gly His Val Ser Gln Ile Cys Lys Ser Lys Ile Leu Ala Ser  
 65 70 75 80  
 Tyr Leu Leu Cys Arg Ile Asn Asn Phe Asn Asn Asn Gly Asn Trp Val  
 85 90 95  
 Met Asp Gly Thr Ala Ala Ile Arg Leu  
 100 105

&lt;210&gt; 2539

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2539

Met Ala Glu Glu Gly Ser Ala Ala Gly Gly Val Met Asp Ile Asn Thr  
 1 5 10 15  
 Val Leu Gln Glu Val Leu Lys Thr Ala Leu Ile His Asp Gly Leu Ala  
 20 25 30  
 Tyr Glu Ile Cys Lys Ala Ala Lys Ala Ser Asp Lys Cys Gln Ala His  
 35 40 45  
 Leu Cys Val Leu Cys Val Leu Ala Ser Asn Cys Asp Glu Pro Met Tyr  
 50 55 60  
 Val Lys Leu Val Glu Ala Leu Cys Ala Glu His Gln Ile Asn Leu Ile  
 65 70 75 80  
 Lys Val Asp Asp Gln Lys Leu Gly Glu Ser Val Gly Leu Cys Lys Thr  
 85 90 95



Asp Arg Glu Gly Lys Pro Cys Lys Val Val Gly  
 100 105

<210> 2540

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2540

Met Phe Ser Val Leu Ser Tyr Gly Arg Leu Val Ala Arg Ala Val Leu  
 1 5 10 15  
 Gly Gly Leu Ser Gln Thr Asp Pro Arg Ala Gly Gly Gly Gly Gly Gly  
 20 25 30  
 Asp Tyr Gly Leu Val Thr Ala Gly Cys Gly Phe Gly Lys Asp Phe Arg  
 35 40 45  
 Lys Gly Leu Leu Lys Lys Gly Ala Cys Tyr Gly Asp Asp Ala Cys Phe  
 50 55 60  
 Val Ala Arg His Arg Ser Ala Asp Val Leu Gly Val Ala Asp Gly Val  
 65 70 75 80  
 Gly Gly Trp Arg Asp Tyr Gly Val Asp Pro Ser Gln Phe Ser Gly Thr  
 85 90 95  
 Leu Met Arg Thr Cys Glu Arg Leu Val Lys Glu Gly Arg Phe Val Pro  
 100 105 110  
 Ser Asn Pro Ile Gly Ile Leu Thr Thr Ser Tyr Cys Glu Leu Leu Gln  
 115 120 125  
 Asn Lys Val Pro Leu Leu Gly Ser Ser Thr Ala Cys Ile Val Val Leu  
 130 135 140  
 Asp Arg Thr Ser His Arg Leu His Thr Ala Asn Leu Gly Asp Ser Gly  
 145 150 155 160  
 Phe Leu Val Val Arg Gly Gly Glu Val Val His Arg Ser Asp Glu Gln  
 165 170 175  
 Gln His Tyr Phe Asn Thr Pro Phe Gln Leu Ser Ile Ala Pro Pro Glu  
 180 185 190  
 Ala Glu Gly Val Val Leu Ser Asp Ser Pro Asp Ala Ala Asp Ser Thr  
 195 200 205

Ser Phe Asp Val Gln Leu Gly Asp Ile Ile Leu Thr Ala Thr Asp Gly  
 210 215 220  
 Leu Phe Asp Asn Met Pro Asp Tyr Met Ile Leu Gln Glu Leu Lys Lys  
 225 230 235 240  
 Leu Lys Asn Ser Asn Tyr Glu Ser Ile Gln Gln Thr Ala Arg Ser Ile  
 245 250 255  
 Ala Glu Gln Ala His Glu Leu Ala Tyr Asp Pro Asn Tyr Met Ser Pro  
 260 265 270  
 Phe Ala Gln Phe Ala Cys Asp Asn Gly Leu Asn Val Arg Gly Gly Lys  
 275 280 285  
 Pro Asp Asp Ile Thr Val Leu Leu Ser Ile Val Ala Glu Tyr Thr Asp  
 290 295 300

<210> 2541

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2541

Met Lys Ser Leu Leu Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Ser  
 1 5 10 15  
 Ala His Cys Asn Leu Cys Leu Leu Ser Ser Ser Asp Ser Leu Ala Ser  
 20 25 30  
 Ala Ser His Val Ala Gly Ile Thr Gly Ala His His Gln Thr Trp Leu  
 35 40 45  
 Ile Ser Ser Arg Asp Arg Val Ser Pro Cys Trp Pro Gly Trp Ser Leu  
 50 55 60  
 Thr Pro Asp Leu Arg Arg Ser Ala Cys Leu Gly Leu Ser Lys Cys Trp  
 65 70 75 80  
 Asp Tyr Arg His Glu Pro Pro Arg Thr Ala Gly Lys Gly Leu Leu Asp  
 85 90 95  
 Gln Asn Ile Gln  
 100

&lt;210&gt; 2542

&lt;211&gt; 376

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2542

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Met Asn Thr Ile Asp Met Tyr Asn Val Thr Arg Pro Ile Glu Lys Leu
 1             5             10             15
Gln Asn Pro Ile Val Thr Gln Phe Phe Pro Ser Val Met Leu Trp Gly
      20             25             30
Phe Thr Val Ile Leu Pro Leu Ile Val Tyr Phe Ser Ala Phe Leu Glu
      35             40             45
Ala His Trp Thr Arg Ser Ser Gln Asn Leu Val Met Val His Lys Cys
      50             55             60
Tyr Ile Phe Leu Val Phe Met Val Val Ile Leu Pro Ser Met Gly Leu
      65             70             75             80
Thr Ser Leu Asp Val Phe Leu Arg Trp Leu Phe Asp Ile Tyr Tyr Leu
      85             90             95
Glu Gln Ala Ser Ile Arg Phe Gln Cys Val Phe Leu Pro Asp Asn Gly
      100            105            110
Ala Phe Phe Val Asn Tyr Val Ile Thr Ala Ala Leu Leu Gly Thr Gly
      115            120            125
Met Glu Leu Leu Arg Leu Gly Ser Leu Phe Cys Tyr Ser Thr Arg Leu
      130            135            140
Phe Phe Ser Arg Ser Glu Pro Glu Arg Val Asn Ile Arg Lys Asn Gln
      145            150            155            160
Ala Ile Asp Phe Gln Phe Gly Arg Glu Tyr Ala Trp Met Met Asn Val
      165            170            175
Phe Ser Val Val Met Ala Tyr Ser Ile Thr Cys Pro Ile Ile Val Pro
      180            185            190
Phe Gly Leu Leu Tyr Leu Cys Met Lys His Leu Ala Asp Arg Tyr Asn
      195            200            205
Met Tyr Tyr Ser Phe Ala Pro Thr Lys Leu Asn Glu Gln Ile His Met
      210            215            220
Ala Ala Val Ser Gln Ala Ile Phe Ala Pro Leu Leu Gly Leu Phe Trp
      225            230            235            240

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Met	Leu	Phe	Phe	Ser	Ile	Leu	Arg	Leu	Gly	Ser	Leu	His	Ala	Ile	Thr		
245						250						255					
Ile	Phe	Ser	Leu	Ser	Thr	Leu	Leu	Ile	Ala	Met	Val	Ile	Ala	Phe	Val		
260						265						270					
Gly	Ile	Phe	Leu	Gly	Lys	Leu	Arg	Met	Val	Ala	Asp	Tyr	Glu	Pro	Glu		
275						280						285					
Glu	Glu	Glu	Ile	Gln	Thr	Val	Phe	Asp	Met	Glu	Pro	Ser	Ser	Thr	Ser		
290						295						300					
Ser	Thr	Pro	Thr	Ser	Leu	Leu	Tyr	Val	Ala	Thr	Val	Leu	Gln	Glu	Pro		
305						310						315				320	
Glu	Leu	Asn	Leu	Thr	Pro	Ala	Ser	Ser	Pro	Ala	Arg	His	Thr	Tyr	Gly		
325						330						335					
Thr	Met	Asn	Asn	Gln	Pro	Glu	Glu	Gly	Glu	Glu	Glu	Ser	Gly	Leu	Arg		
340						345						350					
Gly	Phe	Ala	Arg	Glu	Leu	Asp	Ser	Ala	Gln	Phe	Gln	Glu	Gly	Leu	Glu		
355						360						365					
Leu	Glu	Gly	Gln	Asn	Gln	Tyr	His										
370						375											

<210> 2543

 $\langle 211 \rangle$  210

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2543

Met	Lys	Met	Ile	Leu	Ala	Trp	Arg	Leu	Pro	Leu	Ile	Tyr	Pro	His	Val
1				5				10						15	
Ser	Leu	Phe	Ile	Pro	Gln	Leu	Ser	Gly	Gln	Thr	Asn	Ile	His	Leu	Ser
			20					25					30		
Lys	Asn	Phe	Phe	Leu	Thr	Asn	Arg	Ala	Arg	Glu	Arg	Ser	Asp	Thr	Phe
		35					40					45			
Ile	Asn	Leu	Arg	Glu	Val	Leu	Asn	Arg	Phe	Lys	Leu	Pro	Pro	Gly	Glu
50						55					60				
Tyr	Ile	Leu	Val	Pro	Ser	Thr	Phe	Glu	Pro	Asn	Lys	Asp	Gly	Asp	Phe
65					70						75				80

Cys Ile Arg Val Phe Ser Glu Lys Lys Ala Asp Tyr Gln Ala Val Asp  
                     85                    90                    95  
 Asp Glu Ile Glu Ala Asn Leu Glu Glu Phe Asp Ile Ser Glu Asp Asp  
                     100                    105                    110  
 Ile Asp Asp Gly Phe Arg Arg Leu Phe Ala Gln Leu Ala Gly Glu Asp  
                     115                    120                    125  
 Ala Glu Ile Ser Ala Phe Glu Leu Gln Thr Ile Leu Arg Arg Val Leu  
                     130                    135                    140  
 Ala Lys Arg Gln Asp Ile Lys Ser Asp Gly Phe Ser Ile Glu Thr Cys  
 145                    150                    155                    160  
 Lys Ile Met Val Asp Met Leu Asp Ser Asp Gly Ser Gly Lys Leu Gly  
                     165                    170                    175  
 Leu Lys Glu Phe Tyr Ile Leu Trp Thr Lys Ile Gln Lys Tyr Gln Val  
                     180                    185                    190  
 Arg Ser Gln Arg Cys Gly Trp Ile Cys Val Gly Lys His Ser Val His  
                     195                    200                    205  
 Met Leu  
                     210

<210> 2544

<211> 563

<212> PRT

<213> Homo sapiens

<400> 2544

Met Ala Pro Val Phe Val Gly Thr Pro Tyr Tyr Gly Tyr Val Tyr Glu  
                     1                    5                    10                    15  
 Asp Thr Leu Pro Gly Ser Glu Val Leu Lys Val Val Ala Met Asp Gly  
                     20                    25                    30  
 Asp Arg Gly Lys Pro Asn Arg Ile Leu Tyr Ser Leu Val Asn Gly Asn  
                     35                    40                    45  
 Asp Gly Ala Phe Glu Ile Asn Glu Thr Ser Gly Ala Ile Ser Ile Thr  
                     50                    55                    60  
 Gln Ser Pro Ala Gln Leu Gln Arg Glu Val Tyr Glu Leu His Val Gln  
                     65                    70                    75                    80

Val Thr Glu Met Ser Pro Ala Gly Ser Pro Ala Ala Gln Ala Thr Val			
	85	90	95
Pro Val Thr Ile Arg Ile Val Asp Leu Asn Asn His Pro Pro Thr Phe			
	100	105	110
Tyr Gly Glu Ser Gly Pro Gln Asn Arg Phe Glu Leu Ser Met Asn Glu			
	115	120	125
His Pro Pro Gln Gly Glu Ile Leu Arg Gly Leu Lys Ile Thr Val Asn			
	130	135	140
Asp Ser Asp Gln Gly Ala Asn Ala Lys Phe Asn Leu Gln Leu Val Gly			
	145	150	155
Pro Arg Gly Ile Phe Arg Val Val Pro Gln Thr Val Leu Asn Glu Ala			
	165	170	175
Gln Val Thr Ile Ile Val Glu Asn Ser Ala Ala Ile Asp Phe Glu Lys			
	180	185	190
Ser Lys Val Leu Thr Phe Lys Ala Val Asp Pro Asp Thr Gly Pro Trp			
	195	200	205
Gly Glu Val Lys Tyr Ser Thr Tyr Gly Thr Gly Ala Asp Leu Phe Leu			
	210	215	220
Ile His Pro Ser Thr Gly Leu Ile Tyr Thr Gln Pro Trp Ala Ser Leu			
	225	230	235
Asp Ala Glu Ala Thr Ala Arg Tyr Asn Phe Tyr Val Lys Ala Glu Asp			
	245	250	255
Met Glu Gly Lys Tyr Ser Val Ala Glu Val Phe Ile Thr Leu Leu Asp			
	260	265	270
Val Asn Asp His Pro Pro Gln Phe Gly Lys Ser Val Gln Lys Lys Thr			
	275	280	285
Met Val Leu Gly Thr Pro Val Lys Ile Glu Ala Ile Asp Glu Asp Ala			
	290	295	300
Glu Glu Pro Asn Asn Leu Val Asp Tyr Ser Ile Thr His Ala Glu Pro			
	305	310	315
Ala Asn Val Phe Asp Ile Asn Ser His Thr Gly Glu Ile Trp Leu Lys			
	325	330	335
Asn Ser Ile Arg Ser Leu Asp Ala Leu His Asn Ile Thr Pro Gly Arg			
	340	345	350
Asp Cys Leu Trp Ser Leu Glu Val Gln Ala Lys Asp Arg Gly Ser Pro			
	355	360	365

Ser Phe Ser Thr Thr Ala Leu Leu Lys Ile Asp Ile Thr Asp Ala Glu  
 370 375 380  
 Thr Leu Ser Arg Ser Pro Met Ala Ala Phe Leu Ile Gln Thr Lys Asp  
 385 390 395 400  
 Asn Pro Met Lys Ala Val Gly Val Leu Ala Gly Thr Met Ala Thr Val  
 405 410 415  
 Val Ala Ile Thr Val Leu Ile Ser Thr Ala Thr Phe Trp Arg Asn Lys  
 420 425 430  
 Lys Ser Asn Met Val Leu Pro Met Arg Arg Val Leu Arg Lys Arg Pro  
 435 440 445  
 Ser Pro Ala Pro Arg Thr Ile Arg Ile Glu Trp Leu Lys Ser Lys Ser  
 450 455 460  
 Thr Lys Ala Ala Thr Lys Phe Met Leu Lys Glu Lys Pro Pro Asn Glu  
 465 470 475 480  
 Asn Cys Asn Asn Asn Ser Pro Glu Ser Ser Leu Leu Pro Arg Ala Pro  
 485 490 495  
 Ala Leu Pro Pro Pro Pro Ser Val Ala Pro Ser Thr Gly Ala Ala Gln  
 500 505 510  
 Trp Thr Val Pro Thr Val Ser Gly Ser Leu Thr Pro Gln Pro Thr Gln  
 515 520 525  
 Pro Pro Pro Lys Pro Lys Thr Met Gly Ser Pro Val Gln Ser Thr Leu  
 530 535 540  
 Ile Ser Glu Leu Lys Gln Lys Phe Glu Lys Lys Ser Val His Asn Lys  
 545 550 555 560  
 Ala Tyr Phe

<210> 2545

<211> 214

<212> PRT

<213> Homo sapiens

<400> 2545

Met Pro Pro Phe Pro Arg Gly Leu Lys Thr His Tyr Val Asp Leu Val  
 1 5 10 15

Pro Gly Ser Val Arg Arg Trp Pro Gln Leu Trp Gly Trp Ser Met Leu  
                   20                                  25                                  30  
 Pro Thr His Ser Ser Gly Lys Trp Gly Pro Arg His Arg Gly Ser Ala  
                   35                                  40                                  45  
 Pro Thr Ala Ala Pro Gly Ala Leu Val Phe Trp Glu Gly Leu Gly Val  
                   50                                  55                                  60  
 Cys Thr Arg Arg Pro Gly Pro Gly Thr Ser Pro Gly Ala Gly Ser Gln  
                   65                                  70                                  75                                  80  
 Gly His Arg Val Cys Gly Lys Arg Cys Gly Gly Arg Ala Gly His Arg  
                                   85                                  90                                  95  
 Arg Val Ser Arg Arg Arg Leu Gln Ala Gly Leu Ser Gln Ser Arg Arg  
                   100                                  105                                  110  
 Arg Gly Ile Pro Ser Arg Thr Gly Val Leu Ser Pro Thr Ala Val Ile  
                   115                                  120                                  125  
 Ser Ser Arg Ser Gly Arg Gly Ser Lys Gln Asn Arg Leu Arg Glu Ala  
                   130                                  135                                  140  
 Gly Leu Gly Gln Val Gly Gly Ala Pro Pro Cys Met Thr Ala Thr Val  
                   145                                  150                                  155                                  160  
 Gly Ala Phe Arg Arg Leu Thr Ala Val Gly Ala Ser Gly Glu Lys Arg  
                   165                                  170                                  175  
 Gly Gly Thr Ala Val Ser Ser Cys Gly Ala Ala Ser Asn Trp His Pro  
                   180                                  185                                  190  
 Gly Thr Gly Pro Val Gln Arg Arg His Leu Gln Arg Ala Gly Gln Pro  
                   195                                  200                                  205  
 Gly Ala Gly Ala Cys Ala  
                   210

<210> 2546

<211> 893

<212> PRT

<213> Homo sapiens

<400> 2546

Met Leu Phe Pro Gln Gly Ala His Leu Val Pro Gln Ala Arg Val His  
                   1                                  5                                  10                                  15



Pro Ser Gln Met Glu Ile Ser Glu Thr Val Glu Lys Val Ile Leu Pro			
20	25	30	
Pro Arg Pro Val Leu Asn Asp Val Ser Ala Ala Leu Gln Lys Leu Cys			
35	40	45	
Gly Glu Val Trp Leu Ser Tyr Pro Ala Gly Arg Glu Val Gly Pro Gly			
50	55	60	
Glu Val Asn Pro Glu Phe Pro Glu Ala Val Gln Pro Val Cys Ser Pro			
65	70	75	80
Leu Asn Pro Pro Gly Val Ile Ser Pro Trp Ala Thr Met Asp Thr Ile			
85	90	95	
Val Pro Asp Arg Lys Asp Phe Tyr Ser Ser Asn Val Val Pro Asp Lys			
100	105	110	
Thr His Glu Val Gly Ser Tyr Leu Ala Ala Gln Met Ser Pro Ser Asp			
115	120	125	
Gln Thr Leu Ser Ser Phe Ala Ser Ile Val Ala Gln Tyr Gly Lys Gly			
130	135	140	
Leu Pro Gln Glu Val Glu Glu Ile Val Arg Glu Thr Ile Val Gln Pro			
145	150	155	160
Lys Ser Glu Phe Leu Glu Phe Ser Ala Gly Leu Glu Lys Leu Leu Lys			
165	170	175	
Glu Glu Thr Glu Thr Phe Pro Ser Lys Tyr Glu Ser Asp Thr Gly Asn			
180	185	190	
Leu Ser Pro Ser Lys Leu Ile Gly Ser Thr Glu Glu Pro Arg Arg Ala			
195	200	205	
Thr Ser Glu Cys His Pro Glu Glu Leu Lys Glu Thr Val Glu Lys Ala			
210	215	220	
Glu Ala Pro Leu Ile Thr Glu Ser Ala Phe Asp Ala Gly Phe Glu Lys			
225	230	235	240
Leu Leu Lys Glu Ile Thr Glu Ala Pro Pro Tyr Gln Pro Gln Val Ser			
245	250	255	
Val Arg Glu Glu Thr His Glu Lys Glu Ser Ser Gln Ser Glu Gln Thr			
260	265	270	
Arg Phe Leu Gly Thr Val Pro His Phe Tyr Arg Ala Ala Ser Gln Thr			
275	280	285	
Ser Glu Met Lys Asp Lys Ser Asn Gly Leu Glu Ser Gln Val Asn Gln			
290	295	300	

Cys Asp Lys Met Leu Gly Gly Asp Ala Leu Val Thr Asp Leu Leu Val  
 305 310 315 320  
 Asp Phe Cys Gly Ser Arg Ser Gly Val Glu Ile Pro Arg Thr Pro Gln  
 325 330 335  
 Leu Tyr Val Ala His Glu Ile Gly Thr Ile Lys Thr Val Thr Pro Pro  
 340 345 350  
 Glu Asp Arg Asp Ser Glu Ser Gly Val Ala Gly Gly Gln Gly Thr Leu  
 355 360 365  
 Gln Glu Pro Gly Phe Gly Glu Ala Ser Glu Ala Ile Ser Val Ser Arg  
 370 375 380  
 Asn Arg Gln Pro Ile Pro Leu Leu Met Asn Lys Glu Asn Ser Thr Lys  
 385 390 395 400  
 Thr Ser Lys Val Glu Leu Thr Leu Ala Ser Pro Tyr Met Lys Gln Glu  
 405 410 415  
 Lys Glu Glu Glu Lys Glu Gly Phe Ser Glu Ser Asp Phe Ser Asp Gly  
 420 425 430  
 Asn Thr Ser Ser Asn Ala Glu Ser Trp Arg Asn Pro Ser Ser Ser Glu  
 435 440 445  
 Glu Glu Pro Ser Pro Val Leu Lys Thr Leu Glu Arg Ser Ala Ala Arg  
 450 455 460  
 Lys Met Pro Ser Lys Ser Leu Glu Asp Ile Ser Ser Asp Ser Ser Asn  
 465 470 475 480  
 Gln Ala Lys Val Asp Asn Gln Pro Glu Glu Leu Val Arg Ser Ala Glu  
 485 490 495  
 Asp Val Ser Thr Val Pro Thr Gln Pro Asp Asn Pro Phe Ser His Pro  
 500 505 510  
 Asp Lys Leu Lys Arg Met Ser Lys Ser Val Pro Ala Phe Leu Gln Asp  
 515 520 525  
 Glu Ser Asp Asp Arg Glu Thr Asp Thr Ala Ser Glu Ser Ser Tyr Gln  
 530 535 540  
 Leu Ser Arg His Lys Lys Ser Pro Ser Ser Leu Thr Asn Leu Ser Ser  
 545 550 555 560  
 Ser Ser Gly Met Thr Ser Leu Ser Ser Val Ser Gly Ser Val Met Ser  
 565 570 575  
 Val Tyr Ser Gly Asp Phe Gly Asn Leu Glu Val Lys Gly Asn Ile Gln  
 580 585 590

Phe Ala Ile Glu Tyr Val Glu Ser Leu Lys Glu Leu His Val Phe Val  
 595 600 605  
 Ala Gln Cys Lys Asp Leu Ala Ala Ala Asp Val Lys Lys Gln Arg Ser  
 610 615 620  
 Asp Pro Tyr Val Lys Ala Tyr Leu Leu Pro Asp Lys Gly Lys Met Gly  
 625 630 635 640  
 Lys Lys Lys Thr Leu Val Val Lys Lys Thr Leu Asn Pro Val Tyr Asn  
 645 650 655  
 Glu Ile Leu Arg Tyr Lys Ile Glu Lys Gln Ile Leu Lys Thr Gln Lys  
 660 665 670  
 Leu Asn Leu Ser Ile Trp His Arg Asp Thr Phe Lys Arg Asn Ser Phe  
 675 680 685  
 Leu Gly Glu Val Glu Leu Asp Leu Glu Thr Trp Asp Trp Asp Asn Lys  
 690 695 700  
 Gln Asn Lys Gln Leu Arg Trp Tyr Pro Leu Lys Arg Lys Thr Ala Pro  
 705 710 715 720  
 Val Ala Leu Glu Ala Glu Asn Arg Gly Glu Met Lys Leu Ala Leu Gln  
 725 730 735  
 Tyr Val Pro Glu Pro Val Pro Gly Lys Lys Leu Pro Thr Thr Gly Glu  
 740 745 750  
 Val His Ile Trp Val Lys Glu Cys Leu Asp Leu Pro Leu Leu Arg Gly  
 755 760 765  
 Ser His Leu Asn Ser Phe Val Lys Cys Thr Ile Leu Pro Asp Thr Ser  
 770 775 780  
  
 Arg Lys Ser Arg Gln Lys Thr Arg Ala Val Gly Lys Thr Thr Asn Pro  
 785 790 795 800  
 Ile Phe Asn His Thr Met Val Tyr Asp Gly Phe Arg Pro Glu Asp Leu  
 805 810 815  
 Met Glu Ala Cys Val Glu Leu Thr Val Trp Asp His Tyr Lys Leu Thr  
 820 825 830  
 Asn Gln Phe Leu Gly Gly Leu Arg Ile Gly Phe Gly Thr Gly Lys Ser  
 835 840 845  
 Tyr Gly Thr Glu Val Asp Trp Met Asp Ser Thr Ser Glu Glu Val Ala  
 850 855 860  
 Leu Trp Glu Lys Met Val Asn Ser Pro Asn Thr Trp Ile Glu Ala Thr

865                      870                      875                      880  
 Leu Pro Leu Arg Met Leu Leu Ile Ala Lys Ile Ser Lys  
                          885                      890

<210> 2547

<211> 161

<212> PRT

<213> Homo sapiens

<400> 2547

Met Met Thr Gly Cys Gly Leu Gly Pro Val Val Gly Pro Ser Pro Ala  
       1                      5                      10                      15  
 Ser Asp His Ser Ala Leu Leu Pro Leu Gly Cys Lys Cys Ser Cys Arg  
                       20                      25                      30  
 Leu Ala Cys Ser Cys Leu Leu Ser Leu Pro Gly Pro Leu Gly Leu Leu  
                       35                      40                      45  
 His Leu Pro Leu Glu Arg Cys Pro Pro Ser Ala Cys Trp Arg Ser Arg  
                       50                      55                      60  
 His Cys Cys Ser Pro Thr Glu Arg Ser Ser Ser Arg Thr His Leu Gly  
       65                      70                      75                      80  
 His Leu Gly Trp Asn Ser Phe Pro Tyr Asp Phe Pro Ser Glu Glu Glu  
                       85                      90                      95  
 Thr Pro Ser Asp Val Leu Cys Leu Leu Thr Glu Gln Pro Gly Gly Gln  
                       100                      105                      110  
 Ala Ser Leu Gln Phe Leu Leu Gly Ala Pro Glu Ala Met Leu Ser Leu  
                       115                      120                      125  
 Gly Ser Pro Ser Leu Ser Arg Val Ala Val Arg Val Pro Gly Arg Lys  
                       130                      135                      140  
 Arg Pro Gly Arg Leu Glu Arg Ala Gly Val Ala Ser Trp Arg Gln Arg  
       145                      150                      155                      160  
 Val

<210> 2548

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2548

Met Ser His Val Ile Trp Thr Leu Lys Met Glu Cys Ser Glu Thr His  
 1 5 10 15  
 Val Gln Gly Ser Cys Ala Lys Leu Met Ser Arg Thr Gly Leu Leu Met  
 20 25 30  
 Lys Leu Leu Ser Glu Gln Gln Glu Ala Lys Ala Leu Asn Val Glu Trp  
 35 40 45  
 Asp Thr Asp Gln Gln Lys Thr Asn Tyr Ile Asn Glu Asn Met Glu Gln  
 50 55 60  
 Asn Glu Gln Lys Glu Gln Lys Ser Ser Glu Leu Met Lys Glu Val Pro  
 65 70 75 80  
 Gly Tyr Asp Tyr Lys Asn Lys Leu Ile Phe Ala Ile Ser Val Thr Val  
 85 90 95  
 Ile Leu Ile Ile Leu Ile Ile Ile Phe Cys Phe Ile Glu Val Lys Thr  
 100 105 110  
 Ile Ile Asn Ser Gly Phe Gln Asn Thr Ile Leu Cys Leu Cys Gly Phe  
 115 120 125  
 Arg Ile His Lys Leu Lys Thr Asn Val Thr Phe Pro Leu Asp Ile Leu  
 130 135 140  
 Leu Leu Ser Phe Lys Ala Glu Val Cys Phe Val Leu Leu Leu Gln Cys  
 145 150 155 160  
 Ile Phe Gln Asp Cys  
 165

&lt;210&gt; 2549

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2549

Met Asn Asn Val Ser Leu Asp Ser Leu Tyr Ala Lys Val Phe Ile Leu

1	5	10	15
Asn Met Cys Pro Lys Ile Tyr Ala Leu Thr Asp Val Ile Lys Ile Val			
20	25	30	
Gln Glu Ile Asn Leu Ser Ile Thr Tyr Phe Val Cys Thr Thr Val Ser			
35	40	45	
Tyr Ser Ala Leu Lys Trp Ser Phe Ile Thr Lys Ala Trp Thr Leu Leu			
50	55	60	
Gln Gln Ser Arg Gly Leu Leu Asn Ser Asp Leu Arg Ser Phe Val Cys			
65	70	75	80
Leu Ser Gln Ile Ile Ala His Ser Gln Gly Asn Lys Glu Ser Trp Trp			
85	90	95	
Ile Glu Phe Ser Asp Tyr			
100			

&lt;210&gt; 2550

&lt;211&gt; 161

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2550

Met Lys Ser Leu Ser Val Ser Ser Asp Phe Leu Gly Lys Asp Lys Pro			
1	5	10	15
Val Ser Cys Gly Leu Ala Arg Ser Val Ser Gly Lys Thr Pro Gly Asp			
20	25	30	
Phe Tyr Asp Arg Arg Thr Thr Lys Pro Glu Phe Leu Arg Pro Gly Pro			
35	40	45	
Arg Lys Thr Glu Asp Thr Tyr Phe Ile Ser Ser Ala Gly Lys Pro Thr			
50	55	60	
Pro Gly Thr Gln Gly Lys Ile Lys Leu Val Lys Glu Ser Ser Leu Ser			
65	70	75	80
Arg Gln Ser Lys Asp Ser Asn Pro Tyr Ala Thr Leu Pro Arg Ala Ser			
85	90	95	
Ser Val Ile Ser Thr Ala Glu Gly Thr Thr Arg Arg Thr Ser Ile His			
100	105	110	
Asp Phe Leu Thr Lys Asp Ser Arg Leu Pro Ile Ser Val Asp Ser Pro			

115	120	125
Pro Ala Ala Ala Asp Ser Asn Thr Thr Ala Ala Ser Asn Val Asp Lys		
130	135	140
Val Gln Glu Ser Arg Asn Ser Lys Ser Arg Ser Arg Glu Gln Gln Ser		
145	150	155
Ser		160

&lt;210&gt; 2551

&lt;211&gt; 184

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2551

Met Pro Val Lys Gly Ala Ser Ser Leu Leu Phe Leu Pro Leu Pro Pro		
1	5	10
Ser Ala Trp Gln Leu Cys Leu Leu Ser Lys Arg Arg Val His Pro Ile		
20	25	30
Arg Thr Pro Leu Pro Phe His Ser Trp Ile Lys Ala Leu Val Ile Ser		
35	40	45
Asn Gln Lys Val Pro Glu Arg Glu Arg Pro Glu Ser Thr Gly Val Leu		
50	55	60
Ser Asp Gly Cys Leu Gly Gln Ser Gln Glu Gly Glu Pro Leu Leu Ser		
65	70	75
Pro Pro Ala Leu Ala His Phe Pro Leu His Ala Arg Cys Cys Gly Ser		
85	90	95
Ser Trp Ala Trp Pro Gly Ser Ala Gly Glu Ala Ile Arg Met Val Ser		
100	105	110
Gly Ala Pro Phe Leu Cys Phe Leu Asp Gly Leu Asp Gly Leu Pro Cys		
115	120	125
Ser Ser Pro Met Ala Ala Leu Pro Ala Pro Met Ala Ala Leu Pro Ala		
130	135	140
Arg Arg Gln Arg Gln Glu His Ile Glu Gly Gly Ser Gln Gly Cys Gly		
145	150	155
Val Arg Ser Pro Ala Pro Cys Arg Gly Lys Pro Gly Ser Ala Thr Ser		160

165                                      170                                      175  
 Ser Thr Leu Arg Leu Cys Pro Ala  
 180

<210> 2552

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2552

Met Ser Ser Ser Thr Ser Phe Ile Leu Ser Ala Ile Ala Ser Gly Phe  
 1                                      5                                      10                                      15  
 His Tyr Ser Leu Ser Ala Val Thr Ala Cys Gly Gln Leu Leu Leu Leu  
 20                                      25                                      30  
 Thr Ala Cys Arg Glu Leu Pro Asn Phe Ser Ser Gln Phe Phe Leu Arg  
 35                                      40                                      45  
 Ser Trp Leu Phe Trp Pro Gln Leu Lys Gly Val Leu Leu Ser Ser Leu  
 50                                      55                                      60  
 Arg Val Leu Ser Leu Phe Asp Pro Ile Val Val Phe Ser Ser Phe Glu  
 65                                      70                                      75                                      80  
 His Val Phe Gln Tyr Ser Tyr Phe Asn Leu Leu Arg Thr Leu Lys Gly  
 85                                      90                                      95  
 Asn Asp Lys Leu Val Val Gly Ile Trp Gln Thr Gly Ala Cys Leu Phe  
 100                                      105                                      110  
 Glu Arg Ser Ser Arg Arg Asp Lys Ile Gln Ser Ala Ile Cys Phe Ser  
 115                                      120                                      125  
 Trp Arg Gly Lys Arg Glu Asn Leu Leu Asp Tyr Ile Leu Val Pro Trp  
 130                                      135                                      140  
 His Thr Thr Tyr Met Phe Lys  
 145                                      150

<210> 2553

<211> 134

<212> PRT



<213> Homo sapiens

<400> 2553

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Met Asn Asn Leu Gly Ser Trp Thr His Cys Phe Thr Thr His Leu Pro
 1             5             10             15
Leu Asp Glu Val Ile Trp Leu Gln Ile Leu Cys Arg Gly Lys His Leu
             20             25             30
Leu Met Trp Gln Leu Leu Met Leu Met Val Pro Met Ala Trp Gly Pro
             35             40             45
Gln Gly Ser Leu Pro Gly Gly Glu Gln Gly Tyr Leu Cys Val Leu Tyr
             50             55             60
Ser Ser Gln Gly Val Pro Ala Ala Pro Ala Gly Ser Arg Ala Gln Cys
             65             70             75             80
Thr Val Leu Phe Val Ser Pro Ala Val Leu Ser Ser Pro Gly Tyr Ala
             85             90             95
Gln Ala Ser Arg Val Phe His Gly Ser Gly Ser Gly Trp Leu Lys Cys
             100             105             110
Gln Pro Thr Cys Cys Pro Pro Asn Ile Pro Phe Tyr Pro Trp His Ala
             115             120             125
Val Ala Glu Leu Asn Phe
             130

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<210> 2554

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2554

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Met Ile Gln Phe Ser Lys Phe Glu Leu Leu Met Met His Lys Met Val
 1             5             10             15
Ser Lys Ile Phe Thr Lys Ser Val Thr Leu Phe Phe Leu Ile Thr Phe
             20             25             30
Phe Ser Arg Arg Ser Phe Thr Leu Phe Ala Gln Ala Gly Val Gln Trp
             35             40             45
Arg His Leu Gly Ser Leu Gln Leu Leu Pro Pro Gly Phe Lys Arg Phe

```

50                      55                      60  
 Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Ser Leu Leu Pro  
 65                      70                      75                      80  
 Cys Leu Ala Asn Phe Val Phe Leu Val Gly Met Gly Phe His His Gly  
                     85                      90                      95  
 Gly Gln Ala Gly Leu Asp Leu Leu Thr Ser Ser Asn Pro Pro Thr Ser  
                     100                      105                      110  
 Ala Ser Gln Ser Ala Met Ile Ile Gly Val Ser His His Ala Trp Pro  
                     115                      120                      125  
 Ile Thr Leu Tyr  
 130

<210> 2555

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2555

Met Pro Pro His Thr Leu Pro Arg Ala Arg Leu Pro Gln Arg Pro Thr  
 1                      5                      10                      15  
 Trp Pro His Met Gln Pro Tyr Gln Leu Pro Arg Ala Ala His Val Pro  
                     20                      25                      30  
 Trp Val Thr Val Gly Val Ser Gly Arg Pro Pro Thr His Gly Cys Thr  
                     35                      40                      45  
 Ala Arg Thr Ser Pro Ser Thr Trp Gly Arg Ala Ser Ser Pro Ser Phe  
                     50                      55                      60  
 Lys Asn Arg Lys His Ile Ser Trp Gln Lys Gly Arg Arg Trp Gly Ala  
 65                      70                      75                      80  
 Val Arg Leu Ser Ser Val Tyr Gly Glu Glu Val His Trp Pro Arg Leu  
                     85                      90                      95  
 Ala Ser Val Pro Ala Leu Pro Leu Ile Gly Ser Phe Leu Thr Leu Val  
                     100                      105                      110  
 Ser Leu Lys Val Thr Leu Ala Leu Glu Gly Cys Arg Gly Ala Glu Met  
                     115                      120                      125  
 Gly Arg Cys Val Trp Lys Ser Arg Ala Asp Ile Gln Ala Glu Ala Trp

130                      135                      140  
 Pro Gly Ser Leu Arg Thr Arg Glu Val Ser Phe Leu Ala Pro Asp Ala  
 145                      150                      155                      160  
 Gly Asp Gln Trp Pro Leu Leu Thr Phe Pro Gly Glu Phe  
                     165                      170

<210> 2556

<211> 710

<212> PRT

<213> Homo sapiens

<400> 2556

Met His Asn Ile Arg Gly Asn Lys Gln Ala Gln Gly Thr Gly His Glu  
 1                      5                      10                      15  
 Pro Pro Gly Glu Asp Ser Thr Gln Ser Gly Glu Pro Gln Arg Glu Glu  
                     20                      25                      30  
 Gln Pro Ser Ala Ser Asp Ala Ser Thr Pro Val Arg Glu Pro Glu Asp  
                     35                      40                      45  
 Ser Pro Lys Pro Ala Pro Lys Pro Ser Leu Thr Ile Ser Phe Ala Gln  
                     50                      55                      60  
 Lys Ala Lys Arg Gln Asn Asn Thr Phe Pro Phe Phe Ser Glu Gly Ile  
 65                      70                      75                      80  
 Thr Arg Asn Arg Thr Ala Gln Glu Lys Val Ala Ala Leu Glu Gln Gln  
                     85                      90                      95  
 Val Leu Met Leu Thr Lys Glu Leu Lys Ser Gln Lys Glu Leu Val Lys  
                     100                      105                      110  
 Ile Leu His Lys Ala Leu Glu Ala Ala Gln Gln Glu Lys Arg Ala Ser  
                     115                      120                      125  
 Ser Ala Tyr Leu Ala Ala Ala Glu Asp Lys Asp Arg Leu Glu Leu Val  
                     130                      135                      140  
 Arg His Lys Val Arg Gln Ile Ala Glu Leu Gly Arg Arg Val Glu Ala  
 145                      150                      155                      160  
 Leu Glu Gln Glu Arg Glu Ser Leu Ala His Thr Ala Ser Leu Arg Glu  
                     165                      170                      175  
 Gln Gln Val Gln Glu Leu Gln Gln His Val Gln Leu Leu Met Asp Lys

180	185	190
Asn His Ala Lys Gln Gln Val Ile Cys Lys Leu Ser Glu Lys Val Thr		
195	200	205
Gln Asp Phe Thr His Pro Pro Asp Gln Ser Pro Leu Arg Pro Asp Ala		
210	215	220
Ala Asn Arg Asp Phe Leu Ser Gln Gln Gly Lys Ile Glu His Leu Lys		
225	230	235
240		
Asp Asp Met Glu Ala Tyr Arg Thr Gln Asn Cys Phe Leu Asn Ser Glu		
245	250	255
Ile His Gln Val Thr Lys Ile Trp Arg Lys Val Ala Glu Lys Glu Lys		
260	265	270
Ala Leu Leu Thr Lys Cys Ala Tyr Leu Gln Ala Arg Asn Cys Gln Val		
275	280	285
Glu Ser Lys Tyr Leu Ala Gly Leu Arg Arg Leu Gln Glu Ala Leu Gly		
290	295	300
Asp Glu Ala Ser Glu Cys Ser Glu Leu Leu Arg Gln Leu Val Gln Glu		
305	310	315
320		
Ala Leu Gln Trp Glu Ala Gly Glu Ala Ser Ser Asp Ser Ile Glu Leu		
325	330	335
Ser Pro Ile Ser Lys Tyr Asp Glu Tyr Gly Phe Leu Thr Val Pro Asp		
340	345	350
Tyr Glu Val Glu Asp Leu Lys Leu Leu Ala Lys Ile Gln Ala Leu Glu		
355	360	365
Ser Arg Ser His His Leu Leu Gly Leu Glu Ala Val Asp Arg Pro Leu		
370	375	380
Arg Glu Arg Trp Ala Ala Leu Gly Asp Leu Val Pro Ser Ala Glu Leu		
385	390	395
400		
Lys Gln Leu Leu Arg Ala Gly Val Pro Arg Glu His Arg Pro Arg Ala		
405	410	415
Trp Arg Trp Leu Val His Leu Arg Val Gln His Leu His Thr Pro Gly		
420	425	430
Cys Tyr Gln Glu Leu Leu Ser Arg Gly Gln Ala Arg Glu His Pro Ala		
435	440	445
Ala Arg Gln Ile Glu Leu Asp Leu Asn Arg Thr Phe Pro Asn Asn Lys		
450	455	460
His Phe Thr Cys Pro Thr Ser Ser Phe Pro Asp Lys Leu Arg Arg Val		

465	470	475	480
Leu Leu Ala Phe Ser Trp Gln Asn Pro Thr Ile Gly Tyr Cys Gln Gly			
	485	490	495
Leu Asn Arg Leu Ala Ala Ile Ala Leu Leu Val Leu Glu Glu Glu Glu			
	500	505	510
Ser Ala Phe Trp Cys Leu Val Ala Ile Val Glu Thr Ile Met Pro Ala			
	515	520	525
Asp Tyr Tyr Cys Asn Thr Leu Thr Ala Ser Gln Val Asp Gln Arg Val			
	530	535	540
Leu Gln Asp Leu Leu Ser Glu Lys Leu Pro Arg Leu Met Ala His Leu			
545	550	555	560
Gly Gln His His Val Asp Leu Ser Leu Val Thr Phe Asn Trp Phe Leu			
	565	570	575
Val Val Phe Ala Asp Ser Leu Ile Ser Asn Ile Leu Leu Arg Val Trp			
	580	585	590
Asp Ala Phe Leu Tyr Glu Gly Thr Lys Val Val Phe Arg Tyr Ala Leu			
	595	600	605
Ala Ile Phe Lys Tyr Asn Glu Lys Glu Ile Leu Arg Leu Gln Asn Gly			
	610	615	620
Leu Glu Ile Tyr Gln Tyr Leu Arg Phe Phe Thr Lys Thr Ile Ser Asn			
625	630	635	640
Ser Arg Lys Leu Met Asn Ile Ala Phe Asn Asp Met Asn Pro Phe Arg			
	645	650	655
Met Lys Gln Leu Arg Gln Leu Arg Met Val His Arg Glu Arg Leu Glu			
	660	665	670
Ala Glu Leu Arg Glu Leu Glu Gln Leu Lys Ala Glu Tyr Leu Glu Arg			
	675	680	685
Arg Ala Ser Arg Arg Arg Ala Val Ser Glu Gly Cys Ala Ser Glu Asp			
	690	695	700
Glu Val Glu Gly Glu Ala			
705	710		

&lt;210&gt; 2557

&lt;211&gt; 841

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2557

Met Asn Leu Leu Tyr Arg Lys Thr Lys Leu Glu Trp Arg Gln His Lys  
 1 5 10 15  
 Glu Glu Glu Ala Lys Arg Ser Ser Ser Lys Glu Val Ala Pro Ala Gly  
 20 25 30  
 Ser Ala Gly Pro Ala Ala Gly Gln Gly Pro Gly Val Arg Val Arg Asp  
 35 40 45  
 Ile Ala Ser Leu Arg Arg Ser Leu Arg Met Gly Phe Met Thr Met Pro  
 50 55 60  
 Ala Ser Gln Glu His Thr Pro His Pro Cys Arg Ser Ala Met Ala Pro  
 65 70 75 80  
 Arg Ser Leu Ser Cys His Ser Val Gly Ser Met Asp Ser Val Gly Gly  
 85 90 95  
 Gly Pro Gly Gly Ala Ser Gly Gly Leu Thr Glu Asp Ser Ser Thr Arg  
 100 105 110  
 Arg Pro Pro Ala Lys Pro Arg Arg His Pro Ser Thr Lys Leu Ser Met  
 115 120 125  
 Val Gly Pro Gly Ser Gly Ala Glu Thr Pro Pro Ser Lys Lys Ala Gly  
 130 135 140  
 Ser Gln Lys Pro Thr Pro Glu Gly Arg Glu Ser Ser Arg Lys Val Pro  
 145 150 155 160  
 Pro Gln Lys Pro Arg Arg Ser Pro Asn Thr Gln Leu Ser Val Ser Phe  
 165 170 175  
 Asp Glu Ser Cys Pro Pro Gly Pro Ser Pro Arg Gly Gly Asn Leu Pro  
 180 185 190  
 Leu Gln Arg Leu Thr Arg Gly Ser Arg Val Ala Gly Asp Pro Asp Val  
 195 200 205  
  
 Gly Ala Gln Glu Glu Pro Val Tyr Ile Glu Met Val Gly Asp Val Phe  
 210 215 220  
 Arg Gly Gly Gly Arg Ser Gly Gly Gly Leu Ala Gly Pro Pro Leu Gly  
 225 230 235 240  
 Gly Gly Gly Pro Thr Pro Pro Ala Gly Ala Asp Ser Asp Ser Glu Glu  
 245 250 255

Ser Glu Ala Ile Tyr Glu Glu Met Lys Tyr Pro Leu Pro Glu Glu Ala  
 260 265 270  
 Gly Glu Gly Arg Ala Asn Gly Pro Pro Pro Leu Thr Ala Thr Ser Pro  
 275 280 285  
 Pro Gln Gln Pro His Ala Leu Pro Pro His Ala His Arg Arg Pro Ala  
 290 295 300  
 Ser Ala Leu Pro Ser Arg Arg Asp Gly Thr Pro Thr Lys Thr Thr Pro  
 305 310 315 320  
 Cys Glu Ile Pro Pro Pro Phe Pro Asn Leu Leu Gln His Arg Pro Pro  
 325 330 335  
 Leu Leu Ala Phe Pro Gln Ala Lys Ser Ala Ser Arg Thr Pro Gly Asp  
 340 345 350  
 Gly Val Ser Arg Leu Pro Val Leu Cys His Ser Lys Glu Pro Ala Gly  
 355 360 365  
 Ser Thr Pro Ala Pro Gln Val Pro Ala Arg Glu Arg Glu Thr Pro Pro  
 370 375 380  
 Pro Pro Pro Pro Pro Pro Ala Ala Asn Leu Leu Leu Leu Gly Pro Ser  
 385 390 395 400  
 Gly Arg Ala Arg Ser His Ser Thr Pro Leu Pro Pro Gln Gly Ser Gly  
 405 410 415  
 Gln Pro Arg Gly Glu Arg Glu Leu Pro Asn Ser His Ser Met Ile Cys  
 420 425 430  
 Pro Lys Ala Ala Gly Ala Pro Ala Ala Pro Pro Ala Pro Ala Ala Leu  
 435 440 445  
 Leu Pro Gly Pro Pro Lys Asp Lys Ala Val Ser Tyr Thr Met Val Tyr  
 450 455 460  
 Ser Ala Val Lys Val Thr Thr His Ser Val Leu Pro Ala Gly Pro Pro  
 465 470 475 480  
 Leu Gly Ala Gly Glu Pro Lys Thr Glu Lys Glu Ile Ser Val Leu His  
 485 490 495  
 Gly Met Leu Cys Thr Ser Ser Arg Pro Pro Val Pro Gly Lys Thr Ser  
 500 505 510  
 Pro His Gly Gly Ala Met Gly Ala Ala Ala Gly Val Leu His His Arg  
 515 520 525  
 Gly Cys Leu Ala Ser Pro His Ser Leu Pro Asp Pro Thr Val Gly Pro  
 530 535 540





His Thr Val Leu Trp Asp Thr Ala Ile

835

840

<210> 2558

<211> 109

<212> PRT

<213> Homo sapiens

<400> 2558

Met Asn Met Leu Val Ile Cys Leu Tyr Leu Val Phe Ile Cys Ile Ala

1

5

10

15

Ile Phe Glu His Ser Lys Ile Ala Glu His Glu Arg Val Tyr Leu Cys

20

25

30

Asp Ser Leu Ile Ser Ala Ala Leu Gly Leu Ser Lys Arg Cys Lys Glu

35

40

45

Arg Asp Ile Cys Ile Thr Ser Thr Ser Ser Thr Ser Thr Thr Thr Ser

50

55

60

Ser Ser Leu Ala Ser Cys Glu His Arg Gly Thr Cys Pro Ala Leu Val

65

70

75

80

Ser Gly Cys Glu Trp His Glu Pro Arg Gly Leu Ala Gln Leu His Pro

85

90

95

Glu Phe Pro Lys Arg Asn Phe Glu Glu Ser Gln Asn Leu

100

105

<210> 2559

<211> 210

<212> PRT

<213> Homo sapiens

<400> 2559

Met Pro Arg Ser Leu Arg Pro Pro Cys Pro Gly Ser Thr Leu Arg Trp

1

5

10

15

Leu Pro Gly Gly Arg Thr Pro Phe Pro His His Val Ser Cys Gln Pro

20

25

30

Arg	Arg	Ser	Ser	Gly	Glu	Arg	Glu	Ala	Glu	Ala	Gln	Ser	Gly	Ala	Ala
35				40				45							
Pro	Pro	Gly	Pro	Ser	Pro	Leu	Pro	Pro	Pro	Pro	Pro	His	Pro	Ile	Pro
50				55				60							
Ser	Ser	Thr	Thr	Ser	Ala	Gln	Ala	Trp	Leu	Leu	Ala	Lys	Ser	Arg	His
65				70				75				80			
Arg	Gly	Arg	Arg	Gly	Arg	Gly	Lys	Arg	Met	Ile	Pro	Pro	Gln	Asn	Gly
85				90				95							
Val	Ser	Arg	Lys	Lys	Arg	Glu	Cys	Arg	Ala	Arg	Arg	Asp	Ser	Trp	Gly
100				105				110							
Arg	Gly	Ala	Pro	Ala	Gly	Pro	Ala	Glu	Gly	Arg	Arg	Asn	Gly	Leu	Ser
115				120				125							
Glu	Gly	Gln	Ala	Glu	Gly	Arg	Thr	Pro	Thr	Val	Asp	Pro	Ser	Tyr	Ala
130				135				140							
Pro	Cys	Arg	Gly	Gly	Ala	Gly	Arg	Arg	Arg	Cys	Thr	Arg	Leu	Pro	Ala
145				150				155				160			
Ala	Cys	Gly	Arg	Arg	Ser	Pro	Arg	Ala	Arg	Gly	Ser	Arg	Lys	Pro	Arg
165				170				175							
Ser	Ser	Arg	Thr	Arg	Gly	Pro	Gly	Lys	Lys	Arg	Arg	Gly	Pro	Gln	Pro
180				185				190							
Ala	Ser	Leu	Ala	Pro	Pro	Arg	Phe	Pro	Pro	Gln	Ser	Gly	Val	Pro	Leu
195				200				205							
Arg	Leu														
210															

<210> 2560

&lt;211&gt; 163

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2560

Met Pro His Pro Arg Pro Pro Ser Thr Pro Pro Pro Arg Pro Leu Ser  
1 5 10 15  
Thr Pro Cys Pro Gln Leu Pro Leu Leu Ala Pro Val Pro Ala Phe Leu  
20 25 30

Ser His Pro Pro Val Ser Ile Phe Leu Leu Cys Ser His Pro Leu Ser  
 35 40 45  
 Leu Ser Val Ser Leu Leu Phe Leu Phe Ser Val Ser Pro Ser Asp His  
 50 55 60  
 Leu Thr Pro Leu Ala Cys Cys Leu Ala Ser Ser Leu Ser Pro Phe Leu  
 65 70 75 80  
 Ser Leu Phe Val Ser Ser Leu Phe Leu Thr His Phe Leu Tyr Leu Ala  
 85 90 95  
 Ala Ser Pro Cys Phe Arg Leu Ser Val Ser Leu Phe Pro Pro Pro Leu  
 100 105 110  
 Ser Leu Pro Arg Ser Pro Ile Ser Val Ser Pro Pro Trp Cys Leu Leu  
 115 120 125  
 Leu Thr Gln Glu Ser Lys Pro Phe Phe Pro Arg Gly Trp Ala Lys Gln  
 130 135 140  
 Pro Gln Pro Gly Pro Phe Ser Ala Thr Arg Phe Leu Thr Trp Gly Pro  
 145 150 155 160  
 Ser Ala Pro

<210> 2561

<211> 157

<212> PRT

<213> Homo sapiens

<400> 2561

Met Cys Pro Arg Ser Gly Arg Gln Gln Met Glu Lys Leu Cys Val Thr  
 1 5 10 15  
 Val Pro Leu Gly Val Val Gly Arg Phe Phe Ile Lys Phe Thr Glu Gly  
 20 25 30  
 Leu Val Val Pro Gly Val Arg Lys Gly Phe Lys Arg Val Glu Gln Met  
 35 40 45  
 Asp Glu Asp Asn Leu Gln Ile Leu Pro Gln Thr Gln Thr Leu Ala Cys  
 50 55 60  
 Val Pro Leu Leu Ser Gly Ile Ser Ser Phe Leu Cys Cys Leu His Arg  
 65 70 75 80

Cys Pro Gln Phe Val Tyr Ser Ile Glu Leu Cys Met Leu Gly Ala Pro  
                     85                    90                    95  
 Gly Leu Ser Thr Leu Asn Arg Thr Ser Gln Pro Ala Ala Pro Val Gln  
                     100                    105                    110  
 His His Gly Ser Pro Leu Gln Ser Cys Asn Phe Glu Ser Gly Tyr Ser  
                     115                    120                    125  
 Asp Val Thr Gln Val Leu Gln Gly Met Asn Thr Pro Thr Leu Lys Pro  
                     130                    135                    140  
 Leu Ala Cys Arg Cys Gly Arg Lys Gly Ser Cys Met Leu  
                     145                    150                    155

<210> 2562

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2562

Met Gln Val Ile His Gly Pro His Val Glu Lys Leu Gln Ser Pro Leu  
   1                    5                    10                    15  
 Gly Pro His Arg Pro Ser Pro His Cys Pro Leu Ser Val Val Thr Gly  
                     20                    25                    30  
 Pro Asp Leu Gln Glu Cys Thr Phe His Ser Thr Arg Lys Pro Tyr Asp  
                     35                    40                    45  
 Ile Leu Arg Leu Pro Arg Pro Ala Ala Cys Met Gly Pro Leu Pro Ser  
                     50                    55                    60  
 Ser Thr Pro Thr Leu Arg Met Val Pro Cys Ser Ala Leu Val Leu Cys  
                     65                    70                    75                    80  
 Trp Pro Leu Pro Ala Thr Pro Thr Leu Arg His Pro Gly Val Val Gly  
                     85                    90                    95  
 Pro Asn Trp Leu Ala Pro Pro Ser Ala Ala Leu Cys Arg Pro Asp Ala  
                     100                    105                    110  
 Ala Val Trp Pro Asp Leu Pro Ser Ser Asn Ile Leu Leu Val Thr Pro  
                     115                    120                    125  
 Pro Pro Ala Lys  
                     130

&lt;210&gt; 2563

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2563

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Met Asn Trp Leu Arg Trp Lys Arg Phe Thr Pro Val Ile Met Val His
  1             5             10             15
Phe Gln Leu His Arg Lys Val Lys Pro Gly Ser Gly Gly Glu Val Asp
          20             25             30
Ala Ala Gly Ser Gln Gly Cys Ser Phe Arg Ser Gly Leu Pro Pro Ala
          35             40             45
Trp Thr Gln Trp Phe Ala Ser Ser Ser Ala Thr Ala Pro Gly Asp Ser
          50             55             60
Ser Pro Pro Leu Ala Ser Gln Pro Ser Ser Ser Gln Val Leu Leu Ser
          65             70             75             80
Ala Pro Pro Ser Cys Cys Ser Gly Gly Arg Glu Asn His Gln Leu His
          85             90             95
Thr Leu Leu Val Gly Ser Leu Gln Asp Leu Leu His Thr Glu Leu Ala
          100            105            110
Ser Ala Tyr Gln Val Glu Ser Phe Val Leu Ile Phe Gln Lys Gln Cys
          115            120            125
Gly Leu Asn Leu Ser Arg Gln Ile Leu His Ala Arg Leu Tyr
          130            135            140

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&lt;210&gt; 2564

&lt;211&gt; 218

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2564

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Met Arg Thr Ser Ala Gly Gly Leu Val Thr Gly Gly Trp Ile Ala Arg

```

1	5	10	15
Arg Met Ile Ala Arg Arg Met Asp Arg Gln Glu Asp Gly Ser Pro Gly			
20	25	30	
Gly Trp Met Ala Gln Ser Ser Glu Glu Val Val Glu Gly Pro Ala Pro			
35	40	45	
Gly Asp Pro Ala Gly Arg Ser Gln Thr Thr Ser Glu Ala Pro Thr Glu			
50	55	60	
Pro Arg Pro His Gln Ala Glu Gly Leu Ala Pro Ala Glu Glu Glu Gly			
65	70	75	80
Gly Val Thr Leu Cys Ser Arg Gln Gly Arg Glu Val Glu Ser Ser Gly			
85	90	95	
Phe Ala Ser Ser Cys Ser Cys Pro Gly Leu Pro Lys Gln Met Pro Pro			
100	105	110	
Gln His Thr Asn His Thr Gly Thr Gln Thr His Met His Thr His His			
115	120	125	
Thr Gly Thr His Leu Cys Thr Thr His His Arg His Thr Thr Gln Ala			
130	135	140	
His Thr Gln Ala His Thr Cys Thr His His Thr Gly Thr His Arg Gln			
145	150	155	160
Thr Gln Leu His Thr Arg Ser His Thr Asp Thr His Gly His Thr Tyr			
165	170	175	
Met Tyr Leu His Ile Tyr Thr His Ala His Lys His His Ser Thr Cys			
180	185	190	
Thr Asn Met Gln Tyr Thr Cys Arg His Ile His Ser Asn Gln Met Ile			
195	200	205	
Lys Glu Arg Asp Gln Asn Ile Asn Asn Lys			
210	215		

&lt;210&gt; 2565

&lt;211&gt; 196

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2565

Met Arg Tyr Thr Thr Val Pro Ser Val Arg Pro Thr Ala Leu Ala Thr  
 1 5 10 15  
 Lys Lys Leu Asp Leu Trp Arg Leu Pro Pro Phe Leu Ile Ile His Leu  
 20 25 30  
 Lys Arg Phe Gln Phe Val Asn Asp Gln Trp Ile Lys Ser Gln Lys Ile  
 35 40 45  
 Val Lys Phe Pro Arg Glu Ser Phe Asp Pro Ser Ala Phe Leu Val Pro  
 50 55 60  
 Arg Asp Pro Ala Leu Cys Gln His Gln Pro Leu Thr Pro Gln Gly Asp  
 65 70 75 80  
 Glu Leu Ser Lys Pro Arg Ile Leu Ala Arg Glu Val Lys Lys Val Asp  
 85 90 95  
 Val Gln Ser Leu Ala Gly Glu Glu Asp Met Leu Leu Ser Lys Ser Pro  
 100 105 110  
 Ser Ser Leu Ser Ala Asn Ile Ser Ser Ser Pro Lys Gly Ser Pro Ser  
 115 120 125  
 Ser Pro Arg Lys Ser Gly Thr Ser Cys Pro Ser Ser Lys Asn Ser Ser  
 130 135 140  
 Pro Asn Ser Cys Pro Arg Thr Leu Gly Arg Ser Lys Gly Arg Leu Arg  
 145 150 155 160  
 Leu Pro Gln Ile Gly Ser Lys Asn Lys Leu Ser Ser Ser Lys Lys Asn  
 165 170 175  
 Leu Asp Ala Ser Lys Glu Asn Gly Ala Gly Gln Ile Cys Glu Leu Ala  
 180 185 190  
 Asp Ala Leu Ser  
 195

<210> 2566

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2566

Met Ser His Arg Ala Gln Leu Ile Phe Val Phe Leu Phe Tyr Leu Phe  
 1 5 10 15

Ile Tyr Phe Leu Gly Asp Gly Val Leu Leu Cys His Pro Gly Trp Ser  
                   20                          25                          30  
 Thr Val Val Arg Ser Trp Leu Thr Ala Thr Ser Ala Ser Gln Val Ala  
                   35                          40                          45  
 Gly Ile Thr Gly Met His His His Ala Gln Leu Ile Phe Val Phe Leu  
                   50                          55                          60  
 Val Glu Met Gly Phe His Cys Val Gly Gln Ala Gly Leu Glu Leu Leu  
                   65                          70                          75                          80  
 Thr Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Ile  
                                   85                                  90                                  95  
 Gly Val Ser His Cys Thr Arg Pro Asn Phe Cys Ile Phe Ser Arg Asp  
                                   100                                  105                                  110  
 Gly Val Ser Pro Cys Trp Leu Ser Trp Ser Gly Thr His Gly Leu Lys  
                                   115                                  120                                  125  
 Leu Ser Ala His Leu Ser Leu Pro Lys Cys  
                   130                          135

<210> 2567

<211> 229

<212> PRT

<213> Homo sapiens

<400> 2567

Met Ala Ala Leu Met Ala Gln Val Glu Tyr Gly Asp Leu Glu Lys Pro  
           1                          5                          10                          15  
 Ala Leu Pro Gly Pro Gly Gly Thr Ser Pro Ala Lys Ala Gln His Leu  
                   20                          25                          30  
 Leu Gln Gln Val Leu Asp Arg Phe His Pro Arg Arg Tyr Arg His Gly  
                   35                          40                          45  
 Ala Pro Ala Glu Gln Leu Arg His Leu Ala Asp Met Leu Thr Thr Lys  
                   50                          55                          60  
 Trp Ala Thr Leu Gln Gly Cys Ser Pro Pro Glu Cys Ile Arg Ile Tyr  
                   65                          70                          75                          80  
 Leu Thr Val Ala Arg Lys Trp Pro Phe Phe Gly Ala Lys Leu Phe Ala  
                                   85                                  90                                  95



Ala Gln Pro Ala Gln Leu Ser Ser Lys Glu Asn Ala Leu Val Trp Ile  
                   100                  105                  110  
 Ala Val Asn Glu Asp Gly Val Ser Ile Leu Asp His Asn Thr Met Gln  
                   115                  120                  125  
 Val His Ile Thr Tyr Pro Tyr Ser Ser Val Thr Thr Phe Gly Gly Cys  
                   130                  135                  140  
 Arg Asp Asp Phe Met Leu Val Ile Arg Ser Ile Pro Asp Lys Ser Ser  
                   145                  150                  155                  160  
 Gly Lys Ser His Ile Glu Lys Leu Ile Phe Arg Met Ala Ala Pro Lys  
                   165                  170                  175  
 Ile Ala Glu Ala Thr Phe Ile Met Ala Ser Tyr Met Asn His Cys Thr  
                   180                  185                  190  
 Thr Thr Val Asn Pro Pro Thr Asn Pro Pro Gly Ala Cys Gln Leu Trp  
                   195                  200                  205  
 Glu Leu Asp Gly Arg Gln Phe Phe Ser Ser Val Ser Cys Ala Thr Lys  
                   210                  215                  220  
 Gly Pro Thr Leu Leu  
 225

<210> 2568

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2568

Met Ala Ala Glu Asn Glu Ala Ser Gln Glu Ser Ala Leu Gly Ala Tyr  
           1                  5                  10                  15  
 Ser Pro Val Asp Tyr Met Ser Ile Thr Ser Phe Pro Arg Leu Pro Glu  
                   20                  25                  30  
 Asp Glu Pro Ala Pro Ala Ala Pro Leu Arg Gly Arg Lys Asp Glu Asp  
                   35                  40                  45  
 Ala Phe Leu Gly Asp Pro Asp Thr Asp Pro Asp Ser Phe Leu Lys Ser  
                   50                  55                  60  
 Ala Arg Leu Gln Arg Leu Pro Ser Ser Ser Ser Glu Met Gly Ser Gln  
                   65                  70                  75                  80

Asp Gly Ser Pro Leu Arg Glu Thr Arg Lys Asp Pro Phe Ser Ala Ala  
                     85                    90                    95  
 Ala Ala Glu Cys Ser Cys Arg Gln Asp Gly Leu Thr Val Ile Val Thr  
                     100                    105                    110  
 Ala Cys Leu Thr Phe Ala Thr Gly Val Thr Val Ala Leu Val Met Gln  
                     115                    120                    125  
 Ile Tyr Phe Gly Asp Pro Gln Val Arg Gly Thr Asn Gly Glu Gly Glu  
                     130                    135                    140  
 Glu Thr Gly Glu Trp Gly Val Gly  
 145                    150

<210> 2569

<211> 186

<212> PRT

<213> Homo sapiens

<400> 2569

Met Cys Ser Gly Lys Glu Asn Pro Asp Ser Asp Ala Asp Leu Asp Val  
   1                    5                    10                    15  
 Asp Gly Asp Asp Thr Leu Glu Tyr Gly Lys Pro Gln Tyr Thr Glu Ala  
                     20                    25                    30  
 Asp Val Ile Pro Cys Thr Gly Glu Glu Pro Gly Glu Ala Lys Glu Arg  
                     35                    40                    45  
 Glu Ala Leu Arg Gly Ala Val Leu Asn Gly Gly Pro Pro Ser Thr Arg  
                     50                    55                    60  
 Ile Thr Pro Glu Phe Ser Lys Trp Val Ser Asp Glu Met Pro Ser Thr  
                     65                    70                    75                    80  
 Ser Asn Gly Glu Ser Ser Lys Gln Glu Ala Met Gln Lys Thr Cys Lys  
                     85                    90                    95  
 Asn Ser Asp Ile Glu Lys Ile Thr Glu Asp Ser Ala Val Thr Thr Phe  
                     100                    105                    110  
 Glu Ala Leu Lys Ala Arg Val Arg Glu Leu Glu Arg Gln Leu Ser Arg  
                     115                    120                    125  
 Gly Asp Arg Tyr Lys Cys Leu Ile Cys Met Asp Ser Tyr Ser Met Pro  
                     130                    135                    140

Leu Thr Ser Ile Gln Cys Trp His Val His Cys Glu Glu Cys Trp Leu  
 145 150 155 160  
 Arg Thr Leu Val Arg Trp His Gly Gly Arg Gly Met Gly Gly Arg Ser  
 165 170 175  
 Gly His Cys Pro Asp Val Cys Ala Tyr Ala  
 180 185

<210> 2570

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2570

Met Ser Tyr Gly Arg Pro Pro Pro Asp Val Glu Gly Met Thr Ser Leu  
 1 5 10 15  
 Lys Val Asp Asn Leu Thr Tyr Arg Thr Ser Pro Asp Thr Leu Arg Arg  
 20 25 30  
 Val Phe Glu Lys Tyr Gly Arg Val Gly Asp Val Tyr Ile Pro Arg Asp  
 35 40 45  
 Arg Tyr Thr Lys Glu Ser Arg Gly Phe Ala Phe Val Arg Phe His Asp  
 50 55 60  
 Lys Arg Asp Ala Glu Asp Ala Met Asp Ala Met Asp Gly Ala Val Leu  
 65 70 75 80  
 Asp Gly Arg Glu Leu Arg Val Gln Met Ala Arg Tyr Gly Arg Pro Pro  
 85 90 95  
 Asp Ser His His Ser Arg Arg Gly Pro Pro Pro Arg Arg Tyr Gly Gly  
 100 105 110  
 Gly Gly Tyr Gly Arg Arg Ser Arg Ser Pro Arg Arg Arg Arg Ser  
 115 120 125  
 Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Tyr  
 130 135 140  
 Ser Arg Ser Lys Ser Arg Ser Arg Thr Arg Ser Arg Ser Arg Ser Thr  
 145 150 155 160  
 Ser Lys Ser Arg Ser Ala Arg Arg Ser Lys Ser Lys Ser Ser Ser Val  
 165 170 175

Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Ser Pro  
                   180                  185                  190  
 Pro Pro Val Ser Lys Arg Glu Ser Lys Ser Arg Ser Arg Ser Lys Ser  
                   195                  200                  205  
 Pro Pro Lys Ser Pro Glu Glu Glu Gly Ala Val Ser Ser  
                   210                  215                  220

<210> 2571

<211> 244

<212> PRT

<213> Homo sapiens

<400> 2571

Met Ala Val Ile Pro Glu Ser Ala Trp Lys His Pro Asp Tyr Val Asp  
   1                  5                  10                  15  
 Asp Gly Leu Ser Gly Val Cys Asn Gly Leu Glu Gln Pro Arg Lys Gln  
                   20                  25                  30  
 Gln Arg Ser Asp Leu Asn Gly Pro Val Asp Asn Asn Asn Ile Pro Glu  
                   35                  40                  45  
 Thr Lys Lys Val Ala Ser Phe Pro Ser Phe Val Ala Val Pro Gly Pro  
                   50                  55                  60  
 Cys Glu Pro Glu Asp Leu Ile Asp Gly Ile Ile Phe Ala Ala Asn Tyr  
                   65                  70                  75                  80  
 Leu Gly Ser Thr Gln Leu Leu Ser Glu Arg Asn Pro Ser Lys Asn Ile  
                   85                  90                  95  
 Arg Met Met Gln Ala Gln Glu Ala Val Ser Arg Val Lys Asn Ser Glu  
                   100                  105                  110  
 Gly Asp Ala Gln Thr Leu Thr Glu Val Asp Leu Phe Ile Ser Thr Gln  
                   115                  120                  125  
 Arg Ile Lys Val Leu Asn Ala Asp Thr Gln Glu Thr Met Met Asp His  
                   130                  135                  140  
 Ala Leu Arg Thr Ile Ser Tyr Ile Ala Asp Ile Gly Asn Ile Val Val  
                   145                  150                  155                  160  
 Leu Met Ala Arg Arg Arg Met Pro Arg Ser Ala Ser Gln Asp Cys Ile  
                   165                  170                  175

Glu Thr Thr Pro Gly Ala Gln Glu Gly Lys Lys Gln Tyr Lys Met Ile  
                   180                  185                  190  
 Cys His Val Phe Glu Ser Glu Asp Val Ser Lys Pro Leu Pro Gly His  
                   195                  200                  205  
 Ser Pro Pro Lys Val His Ser Pro Gly Arg Leu Gln Asp Pro Gly Ala  
                   210                  215                  220  
 Val Glu Thr Thr Leu Arg Trp Lys Ala Ser Met Leu Leu Leu Met Phe  
 225                  230                  235                  240  
 Pro Val Asp Gln

<210> 2572

<211> 195

<212> PRT

<213> Homo sapiens

<400> 2572

Met Met Pro Pro Pro Gly Ile Pro Pro Pro Phe Pro Pro Met Gly Leu  
   1                  5                  10                  15  
 Pro Pro Met Ser Gln Arg Pro Pro Ala Ile Pro Pro Met Pro Pro Gly  
                   20                  25                  30  
 Ile Leu Pro Pro Met Leu Pro Pro Met Gly Ala Pro Pro Pro Leu Thr  
                   35                  40                  45  
 Gln Ile Pro Gly Met Val Pro Pro Met Met Pro Gly Met Leu Met Pro  
                   50                  55                  60  
 Ala Val Pro Val Thr Ala Ala Val Ser Thr Arg Gly Gln Gln Val Ala  
   65                  70                  75                  80  
 Gly Ser Ala Leu Gln Ser Arg Glu Ser Asp Leu Glu Cys Arg Thr Met  
                   85                  90                  95  
 Thr Ser Ile Leu Ser Leu Phe Ser Ser His Pro Pro Arg Ser Pro Ala  
                   100                  105                  110  
 Ala Leu Pro Thr Leu Lys Ser Phe Ser Pro Ala Met Tyr Ser Ala Leu  
                   115                  120                  125  
 Leu Val Ser His Ser Ser Pro Lys Ala Tyr Thr Phe Ser Cys Tyr Ser  
                   130                  135                  140

Arg Ala Leu Ser Ser Ser Leu Lys Glu His Thr Tyr Pro His Arg Ala  
 145                      150                      155                      160  
 Thr His Cys Gly His Met Asn Ile Val Leu His Ile Leu Phe Val Pro  
                     165                      170                      175  
 Arg Arg Val Ser Ser Thr Trp Gly Ser Cys Cys Ala Phe Leu Cys Tyr  
                     180                      185                      190  
 Arg Ser Val  
                     195

<210> 2573

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2573

Met Asp Ile Arg Ser Ala Ala Gly Leu Arg Val Leu Ala Val Asn Ile  
   1                      5                      10                      15  
 Leu Gly Arg Phe Leu Leu Asn Ser Asp Arg Asn Ile Arg Tyr Val Ala  
                     20                      25                      30  
 Leu Thr Ser Leu Leu Arg Leu Val Gln Ser Asp His Ser Ala Val Gln  
                     35                      40                      45  
 Arg His Arg Pro Thr Val Val Glu Cys Leu Arg Glu Thr Asp Ala Ser  
                     50                      55                      60  
 Leu Ser Arg Arg Ala Leu Glu Leu Ser Leu Ala Leu Val Asn Ser Phe  
   65                      70                      75                      80  
 Asn Val Arg Ala Met Met Gln Glu Leu Gln Ala Phe Leu Glu Ser Cys  
                     85                      90                      95  
 Pro Pro Asp Leu Arg Ala Asp Cys Ala Ser Gly Ile Leu Leu Ala Ala  
                     100                      105                      110  
 Glu Arg His His Pro Ala Cys Ala Asp Asn Gly Gly His Pro Cys Ala  
                     115                      120                      125  
 Gly

&lt;210&gt; 2574

&lt;211&gt; 192

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2574

Met Glu Asp Ser Ala Val Pro Thr Pro Asp Ser Arg Glu Ala Gly Val

1 5 10 15

Trp Thr Val Pro His Leu Asn Pro His Ser Leu Cys Leu Pro Leu Pro

20 25 30

Arg Leu Ala Lys Lys Ser Trp Phe Gly Asn Phe Ile Ser Leu Glu Lys

35 40 45

Glu Glu Gln Ile Phe Val Val Ile Lys Asp Lys Pro Leu Ser Ser Ile

50 55 60

Lys Ala Asp Ile Val His Ala Phe Leu Ser Ile Pro Ser Leu Ser His

65 70 75 80

Ser Val Ile Ser Gln Thr Ser Phe Arg Ala Glu Tyr Lys Ala Thr Gly

85 90 95

Gly Pro Ala Val Phe Gln Lys Pro Val Lys Phe Gln Val Asp Ile Thr

100 105 110

Tyr Thr Glu Gly Gly Glu Ala Gln Lys Glu Asn Gly Ile Tyr Ser Val

115 120 125

Thr Phe Thr Leu Leu Ser Gly Pro Ser Arg Arg Phe Lys Arg Val Val

130 135 140

Glu Thr Ile Gln Ala Gln Leu Leu Ser Thr His Asp Pro Pro Ala Ala

145 150 155 160

Gln His Leu Ser Glu Pro Pro Pro Pro Ala Pro Gly Leu Ser Trp Gly

165 170 175

Ala Gly Leu Lys Gly Gln Lys Val Ala Thr Ser Tyr Glu Ser Ser Leu

180 185 190

&lt;210&gt; 2575

&lt;211&gt; 256

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2575

Met Asn Pro Gly Gly Arg Ala Cys Ser Glu Pro Arg Leu Arg His Ala  
 1 5 10 15  
 Thr Ala Leu Gln Pro Gly Arg Gln Ser Glu Thr Pro Ser Gln Lys Lys  
 20 25 30  
 Lys Lys Lys Phe Lys Asp Phe Ile Ile Glu Thr Glu Ile Thr Phe Asp  
 35 40 45  
 Leu Cys Ser Phe Leu Ser Ser Ser Lys Ser Pro Gly Thr Ser Met Thr  
 50 55 60  
 Pro Ser Ser Gly Ser Phe Pro Ser Ala Tyr Asp Gln Gln Ser Ser Lys  
 65 70 75 80  
 Asp Ser Arg Gln Gly Gln Trp Gln Arg Arg Arg Arg Leu Asp Gly Ala  
 85 90 95  
 Leu Asn Arg Val Pro Val Gly Phe Tyr Gln Lys Val Trp Lys Val Leu  
 100 105 110  
 Gln Lys Cys His Gly Leu Ser Val Glu Gly Phe Val Leu Pro Ser Ser  
 115 120 125  
 Thr Thr Arg Glu Met Thr Pro Gly Glu Ile Lys Phe Ser Val His Val  
 130 135 140  
 Glu Ser Val Leu Asn Arg Val Pro Gln Pro Glu Tyr Arg Gln Leu Leu  
 145 150 155 160  
 Val Glu Ala Ile Leu Val Leu Thr Met Leu Ala Asp Ile Glu Ile His  
 165 170 175  
 Ser Ile Gly Ser Ile Ile Ala Val Glu Lys Ile Val His Ile Ala Asn  
 180 185 190  
 Asp Leu Phe Leu Gln Glu Gln Lys Thr Leu Gly Ala Asp Asp Thr Met  
 195 200 205  
 Leu Ala Lys Asp Pro Ala Ser Gly Ile Cys Thr Leu Leu Tyr Asp Ser  
 210 215 220  
 Ala Pro Ser Gly Arg Phe Gly Thr Met Thr Tyr Leu Ser Lys Ala Ala  
 225 230 235 240  
 Ala Thr Tyr Val Gln Glu Phe Leu Pro His Ser Ile Cys Ala Met Gln  
 245 250 255



&lt;210&gt; 2576

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2576

```

Met Gly Trp Val Gly Val Val Gln Val Pro Cys Met Gly Ser Thr Ala
  1             5             10             15
Leu Lys Arg Val Gln Arg Pro His Leu Arg Val Ser Ala Arg Ala Gly
      20             25             30
Phe Arg Ala Ser Leu Ala Ser Trp Ala Leu Cys Leu Ser His Ser Asp
      35             40             45
Ser Asn Met Ile Thr Cys Ser Glu Gln Pro His Leu Ser Lys Gln Gly
      50             55             60
Glu Asn Thr Ser Ala Thr Phe Lys Asn Met Ser Pro Gly Ile Lys Lys
      65             70             75             80
Lys Thr Arg Lys Ala Ser Phe Ser Ser Leu Val Gly Lys Ser Ser Leu
      85             90             95
Leu Thr Ala Ser Ser
      100

```

&lt;210&gt; 2577

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2577

```

Met Ser His Arg Ala Gln Pro Ile Leu Phe Ser Arg Gln Gly Leu Ala
  1             5             10             15
Leu Ser Pro Glu Leu Glu Cys Ser Gly Ser Ile Met Ala His Tyr Ser
      20             25             30
Leu Asp Leu Leu Gly Ser Gly Ser Ser Pro Thr Ser Ala Ser Arg Val
      35             40             45
Ala Gly Thr Ala Gly Met His Cys His Thr Arg Leu Met Phe Lys Lys

```

50                      55                      60  
 Phe Phe Cys Arg Asp Arg Val Leu Thr Val Leu Pro Arg Leu Val Leu  
 65                      70                      75                      80  
 Asn Ser Cys Val Gln Ala Val Leu Leu Pro Gln Pro Pro Arg Val Leu  
                     85                      90                      95  
 Gly Leu Gln Ala  
                     100

<210> 2578

<211> 239

<212> PRT

<213> Homo sapiens

<400> 2578

Met Arg Trp Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys Ser Gly Ala  
 1                      5                      10                      15  
 Ile Ser Thr Asp Ser Ser Leu His Leu Pro Gly Ser Ser Asn Ser Leu  
                     20                      25                      30  
 Thr Ser Ala Ser Gln Val Gly Gly Ile Thr Gly Ala Cys His His Ala  
                     35                      40                      45  
 Arg Leu Ile Phe Val Phe Ser Val Glu Thr Gly Phe His His Val Gly  
                     50                      55                      60  
 Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro Thr Ser Ala  
 65                      70                      75                      80  
 Ser Gln Asn Ala Gly Ile Thr Gly Val Ser His Arg Ala Gln Pro Glu  
                     85                      90                      95  
 Leu Cys Phe Ile Leu Lys Ser Phe Ser Phe Phe Leu Arg Gln Gly Leu  
                     100                      105                      110  
 Cys His Pro Gly Trp Ser Ala Val Ala Gln Ser Gln Leu Thr Glu Ala  
                     115                      120                      125  
 Ser Val Ser Gln Ala Gln Ala Ile Leu Leu Pro Gln Pro Pro Glu Tyr  
                     130                      135                      140  
 Gly Ser Thr Gly Met Tyr His His Ala Trp Leu Ile Phe Trp Gly Gly  
 145                      150                      155                      160  
 Leu Val Asn Lys Gly Ser His Tyr Ile Ala Gln Ala Gly Leu Glu Leu

165 170 175  
 Leu Asn Ser Ser Asn Pro Pro Ala Ser Val Ser Gln Lys Ala Gly Ile  
 180 185 190  
 Ile Asp Ile Ser His Cys Ala Gln Pro Ile Leu Glu Ser Leu Met Phe  
 195 200 205  
 Ile Pro Asn Pro Lys Gly Arg His Tyr Pro His Phe Met Glu Lys Asp  
 210 215 220  
 Thr Glu Ala Gln Lys Gly Ala Val Thr Arg Pro Arg Pro Pro Cys  
 225 230 235

<210> 2579

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2579

Met Leu Ser Arg Trp Ser Ala Ser Phe Thr Val Thr Lys Gly Lys Ser  
 1 5 10 15  
 Ser Thr Gln Glu Ala Thr Gly Gln Ala Val Ser Thr Ala His Pro Pro  
 20 25 30  
 Thr Gly Lys Arg Leu Lys Lys Thr Pro Glu Lys Lys Thr Gly Asn Lys  
 35 40 45  
 Asp Cys Lys Ala Asp Ile Ala Phe Leu Ile Asp Gly Ser Phe Asn Ile  
 50 55 60  
 Gly Gln Arg Arg Phe Asn Leu Gln Lys Asn Phe Val Gly Lys Val Ala  
 65 70 75 80  
 Leu Met Leu Gly Ile Gly Thr Glu Gly Pro His Val Gly Leu Val Gln  
 85 90 95  
 Ala Ser Glu His Pro Lys Ile Glu Phe Tyr Leu Lys Asn Phe Thr Ser  
 100 105 110  
 Ala Lys Asp Val Leu Phe Ala Ile Lys Glu Val Gly Phe Arg Gly Gly  
 115 120 125  
 Asn Ser Asn Thr Gly Lys Ala Leu Lys His Thr Ala Gln Lys Phe Phe  
 130 135 140  
 Thr Val Asp Ala Gly Val Arg Lys Gly Ile Pro Lys Val Val Val Val

145                      150                      155                      160  
 Phe Ile Asp Gly Trp Pro Ser Asp Asp Ile Glu Glu Ala Gly Ile Val  
                          165                      170                      175  
 Ala Arg Glu Phe Gly Val Asn Val Phe Ile Val Ser Val Ala Lys Pro  
                          180                      185                      190  
 Ile Pro Glu Glu Leu Gly Met Val Gln Asp Val Thr Phe Val Asp Lys  
                          195                      200                      205  
 Ala Val Cys Arg Asn Asn Gly Phe Phe Ser Tyr His Met Pro Asn Trp  
                          210                      215                      220  
 Phe Gly Thr Thr Lys Tyr Glu Ser Leu Trp Tyr Arg Ser Cys Ala Val  
 225                      230                      235                      240  
 Met Asn Lys

<210> 2580

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2580

Met Val Asn Ile Arg Lys Ala Val Lys Lys Glu Met Glu Arg Ser Val  
   1                      5                      10                      15  
 Gly Met Val Asn Ser Gln Arg Arg Glu Ala Gly Leu Ala Trp Ser Gln  
                          20                      25                      30  
 Gln Pro Gly Val Gln His Ser His Ser Pro Gln Lys Glu Gln Lys Ala  
                          35                      40                      45  
 Thr Cys Ala Leu Phe Cys Arg Cys Ala Phe Pro Thr Pro Pro Trp Gly  
                          50                      55                      60  
 Pro Leu Ala Gln Phe Ser Leu Ala Val Ser Leu Pro Asp Thr His Phe  
                          65                      70                      75                      80  
 Pro Glu Ala Ser Gln Val Ile Ser His His Met Ser Pro Arg Lys Glu  
                          85                      90                      95  
 Val Phe Gly Thr  
                          100

&lt;210&gt; 2581

&lt;211&gt; 169

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2581

```

Met Gly Thr Ala Tyr Val Ala Leu Pro Gln Pro Ser Ser Met Gln Trp
  1             5             10             15
Pro Gly Ser Asn Gln Arg Ser Pro Gly Arg Val Ser Cys Lys Asn Leu
      20             25             30
Gly Lys Arg Ala Gln Gly Gly Cys Arg Leu Leu Thr Ala Cys Leu Asp
      35             40             45
Arg Pro His Gly Ala Ser Pro His Ile Ala Arg Ala Leu Ala Ser Pro
      50             55             60
Leu Pro Thr Cys Lys Arg Gly Cys Trp Gln Gln His Phe Thr Thr Arg
      65             70             75             80
Asn Leu Tyr Ser Asn Ser Lys His Ala Leu Thr His Ser Val Asn Tyr
      85             90             95
Pro Leu Ser Trp Pro Thr Glu Val Asp Ser Phe Arg Pro Pro Phe Val
      100            105            110
Gln Met Arg Lys Leu Arg Leu Thr Pro Lys Pro Gly Gly Phe Gln Met
      115            120            125
Trp Ser Gly Ser Leu Cys Pro Gly Asp Glu Gly Thr Arg Arg Val Trp
      130            135            140
Ser Arg Ala Gly Val Gly Leu Arg Cys Ser Arg Leu Ala Val Lys Gly
      145            150            155            160
Ala Arg Cys Glu Pro Gly Cys Trp Val
      165

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&lt;210&gt; 2582

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2582

Met Leu Ala Ala Lys Gln Ser Tyr Lys Met Cys Leu Asp Leu Ile Phe  
 1 5 10 15  
 Pro Trp Thr Gln Pro Gln Asp Gly Pro Ala Arg Leu Trp Arg Ser Trp  
 20 25 30  
 Asp Ser Lys Val Ser Leu Pro Val Cys Ser Gly Ile Gly Ser Trp Ser  
 35 40 45  
 Trp Gly Glu Gly Ser Ile Trp Gly Ser Ala Leu Pro Pro Pro Gly Pro  
 50 55 60  
 Phe Leu Phe Leu Ile Ser Ser Gln Ser Leu Met Gln Gln Gln Ser Lys  
 65 70 75 80  
 Phe Ser Phe Ser Thr Asp Ser Gly Leu Glu Phe Ser Thr Asn Cys Leu  
 85 90 95  
 His Leu Pro Gly His Ile Pro Asn Arg  
 100 105

&lt;210&gt; 2583

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2583

Met Ala Cys Gly Ala Thr Leu Lys Arg Pro Met Glu Phe Glu Ala Ala  
 1 5 10 15  
 Leu Leu Ser Pro Gly Pro Thr Pro Gly Leu Arg Pro Pro Asp Ala Glu  
 20 25 30  
 Pro Pro Pro Pro Phe Gln Thr Gln Thr Pro Pro Gln Ser Leu Gln Gln  
 35 40 45  
 Pro Ala Pro Pro Gly Ser Glu Arg Arg Leu Pro Thr Pro Glu Gln Ile  
 50 55 60  
 Phe Gln Asn Ile Lys Gln Glu Tyr Ser Arg Tyr Gln Arg Trp Arg His  
 65 70 75 80  
 Leu Glu Val Val Leu Asn Gln Ser Glu Ala Cys Ala Ser Glu Ser Gln  
 85 90 95  
 Pro His Ser Ser Ala Leu Thr Ala Pro Ser Ser Pro Gly Ser Ser Trp

100	105	110
Met Lys Lys Asp Gln Pro Thr Phe Thr Leu Arg Gln Val Gly Ile Ile		
115	120	125
Cys Glu Arg Leu Leu Lys Asp Tyr Glu Asp Lys Ile Arg Glu Glu Tyr		
130	135	140
Glu Gln Ile Leu Asn Thr Lys Leu Ala Glu Gln Tyr Glu Ser Phe Val		
145	150	155
Lys Phe Thr His Asp Gln Ile Met Arg Arg Tyr Gly Thr Arg Pro Thr		
165	170	175
Ser Tyr Val Ser		
180		

&lt;210&gt; 2584

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2584

Met Cys Leu Phe Pro Arg Gln His Leu Asp Leu Ala Ala Trp Ser Gln		
1	5	10
Gly Leu Ser Pro Pro Arg Arg Val Pro Ser Ser Gly Val Gly Gly Arg		
20	25	30
Pro Thr Leu Pro Gln Gly Val Pro Phe Asp Gly Lys Cys Ser Gln Gln		
35	40	45
Arg Gly Gly Val Trp Ala Thr Phe Arg Arg Trp Met Trp Trp Pro Arg		
50	55	60
Pro Arg Pro Arg Arg Val Met Ala Phe Pro Phe Cys Arg Cys Gly Gln		
65	70	75
Val Gly Leu Gly Pro Val Leu Gly Pro Leu Leu Ala Val Cys Glu Gly		
85	90	95
Pro Gly Gly Arg Arg Gly Pro Asp Ser Ile Pro Ile Lys His Thr Gly		
100	105	110
Thr		

&lt;210&gt; 2585

&lt;211&gt; 179

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2585

Met Phe Glu Ser Pro Gly Trp Ala Val Phe Ala Phe Leu Asp Asn Asp  
 1 5 10 15  
 Cys Gln His Gln Gln Gly Cys Leu Arg Met His Ala Leu Val Leu Gly  
 20 25 30  
 Pro Glu Ser Gln Arg Glu Leu Pro Leu Leu Ala Arg Ala Gln Ala Ala  
 35 40 45  
 Val Glu Glu Gln His Pro Gln Gly Ser Val Asp Gly Lys Asp Ala Trp  
 50 55 60  
 Leu Arg Ala Gly Asp Gly Val Pro Asp Glu Ser Val Pro Pro Thr Val  
 65 70 75 80  
 Ser Val Phe Arg Thr Cys Glu Val Gln Gly Cys Ala Arg Gly Arg Gly  
 85 90 95  
 Leu Gly Tyr Ser Asn Leu Ile Arg Gly Pro Glu Glu Arg Trp Val Val  
 100 105 110  
 Val Ile Asp Ile His Asp Cys Tyr Val Asp Leu Gly Ala Ala Ala Gly  
 115 120 125  
 Trp Gly Ala Ala Glu Leu Arg Leu His Arg Glu His Asn His Gly Leu  
 130 135 140  
 Arg Leu Val Ile Gln Gly Leu Pro Gly Ala Asn Ser Ala Gln Pro Arg  
 145 150 155 160  
 Val Asn Gly Glu Leu Ser Ala Glu Ile Thr Arg Arg Asn Pro Val Lys  
 165 170 175  
 Asp Trp Phe

&lt;210&gt; 2586

&lt;211&gt; 306

&lt;212&gt; PRT



&lt;213&gt; Homo sapiens

&lt;400&gt; 2586

Met Leu Ala Lys Gln Tyr Gly His Met Lys Ile Val Ala Leu Met Asp  
 1 5 10 15  
 Thr Tyr Ser Pro Ser Leu Pro Lys Ser Leu Tyr Arg Ser Pro Glu Lys  
 20 25 30  
 Tyr Glu Asp Leu Ser Ser Ser Asp Glu Ser Cys Pro Ala Pro Gln Arg  
 35 40 45  
 Gln Arg Pro Cys Arg Lys Lys Gly Val Ser Ile His Glu Gly Pro Arg  
 50 55 60  
 Ala Leu Ala Arg Ile Thr Gly Ile Gly Leu Gly Gly Arg Ala Pro Arg  
 65 70 75 80  
 Pro Arg Tyr Glu Gln Ala Pro Pro Arg Gly Tyr Val Thr Phe Asn Ser  
 85 90 95  
 Ser Gly Glu Asn Pro Leu Glu Glu Glu Gly Leu Cys Cys Arg Asp Val  
 100 105 110  
 Thr Ser Pro Ile Asn Glu Arg Asp Val Glu Ser Ser Ser Ser Ser Ser  
 115 120 125  
 Ser Arg Glu Glu His Ala Phe Cys Ala Asn Leu Gly Pro Val Gln Ser  
 130 135 140  
 Ser Ser Ser Ser Glu Gly Leu Ala Arg Ala Gln Gly Leu Ser Ser Glu  
 145 150 155 160  
 Ala Ser Val Glu Ser Asn Glu Asp Ser Asp His Ala Cys Lys Ser Ser  
 165 170 175  
 Ala Arg Lys Gln Ala Lys Ser Tyr Met Lys Thr Lys Asn Pro Asp Ser  
 180 185 190  
 Gln Trp Pro Pro Arg Ala Ala Thr Asp Arg Glu Gly Phe Leu Ala Glu  
 195 200 205  
 Ser Ser Pro Gln Thr Gln Arg Ala Pro Tyr Ser Gly Pro Gln Val Arg  
 210 215 220  
 Pro Leu Val Lys Leu Glu Val Thr Leu Arg Asp Gly Thr Phe Cys Asp  
 225 230 235 240  
 Leu Gly Gly Met Cys Cys Val Tyr Asp Val Pro Gly Ala Ala Arg Arg  
 245 250 255  
 Thr Glu Trp Arg Trp His Pro His Gly Leu Leu Gly Ser Thr Gly Ser

260                      265                      270  
 Gln Pro Ala Pro Trp Leu Ala Ala Pro Leu Gln Arg Phe Tyr Ser Val  
 275                      280                      285  
 Pro Leu His Gly Lys Asp Leu Ser Pro Cys Phe Pro Tyr Trp Ser Trp  
 290                      295                      300  
 Pro Pro  
 305

<210> 2587

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2587

Met Thr His Thr Leu Pro Ser Ser Tyr His Asn Asp Ala Arg Ser Ser  
 1                      5                      10                      15  
 Leu Ser Val Ser Leu Glu Pro Glu Ser Leu Gly Leu Gly Ser Ala Asn  
 20                      25                      30  
 Ser Ser Gln Asp Ser Leu His Lys Ala Pro Lys Lys Lys Gly Ile Lys  
 35                      40                      45  
 Ser Ser Ile Gly Arg Leu Phe Gly Lys Lys Glu Lys Ala Arg Leu Gly  
 50                      55                      60  
 Gln Leu Arg Gly Phe Met Glu Thr Glu Ala Ala Ala Gln Glu Ser Leu  
 65                      70                      75                      80  
 Gly Leu Gly Lys Leu Gly Thr Gln Ala Glu Lys Asp Arg Arg Leu Lys  
 85                      90                      95  
 Lys Lys His Glu Leu Leu Glu Glu Ala Arg Arg Lys Gly Leu Pro Phe  
 100                      105                      110  
 Ala Gln Trp Asp Gly Pro Thr Val Val Ala Trp Leu Glu Leu Trp Leu  
 115                      120                      125  
 Gly Met Pro Ala Trp Tyr Val Ala Ala Cys Arg Ala Asn Val Lys Ser  
 130                      135                      140  
 Gly Ala Ile Met Ser Ala Leu Ser Asp Thr Glu Ile Gln Arg Glu Ile  
 145                      150                      155                      160  
 Gly Ile Ser Asn Pro Leu His Arg Leu Lys Leu Arg Leu Ala Ile Gln

	165		170		175
Glu Met Val Ser Leu Thr Ser Pro Ser Ala Pro Pro Thr Ser Arg Thr					
	180		185		190
Cys Pro Val Phe Leu Gln Thr Leu Ala Tyr Gly Asp Met Asn His Glu					
	195		200		205
Trp Ile Gly Asn Glu Trp Leu Pro Ser Leu Gly Leu Pro Gln Tyr Arg					
	210		215		220
Ser Tyr Phe Met Glu Cys Leu Val Asp Ala Arg Met Leu Asp His Leu					
225		230		235	240
Thr Lys Lys Asp Leu Arg Val His Leu Lys Met Val Asp Ser Phe His					
	245		250		255
Arg Thr Ser Leu Gln Tyr Gly Ile Met Cys Leu Lys Arg Leu Asn Tyr					
	260		265		270
Asp Arg Lys Glu Leu Glu Arg Arg Arg Glu Ala Ser Gln His Glu Ile					
	275		280		285
Lys Asp Val Leu Val Trp Ser Asn Asp Arg Val Ile Arg Trp Ile Gln					
	290		295		300
Ala Ile Gly Leu Arg Glu Tyr Ala Asn Asn Ile Leu Glu Ser Gly Val					
305		310		315	320
His Gly Ser Leu Ile Ala Leu Asp Glu Asn Phe Asp Tyr Ser Ser Leu					
	325		330		335
Ala Leu Leu Leu Gln Ile Pro Thr Gln Asn Thr Gln Ala Arg Gln Ile					
	340		345		350
Leu Glu Arg Glu Tyr Asn Asn Leu Leu Ala Leu Gly Thr Glu Arg Arg					
	355		360		365
Leu Asp Glu Ser Asp Asp Lys Asn Phe Arg Arg Gly Ser Thr Trp Arg					
	370		375		380
Arg Gln Phe Pro Pro Arg Glu Val His Gly Ile Ser Met Met Pro Gly					
385		390		395	400
Ser Ser Glu Thr Leu Pro Ala Gly Phe Arg Leu Thr Thr Thr Ser Gly					
	405		410		415
Gln Ser Arg Lys Met Thr Thr Asp Val Ala Ser Ser Arg Leu Gln Arg					
	420		425		430
Leu Asp Asn Ser Thr Val Arg Thr Tyr Ser Cys					
	435		440		

&lt;210&gt; 2588

&lt;211&gt; 183

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2588

Met Arg Glu Tyr Lys Val Val Val Leu Gly Ser Gly Gly Val Gly Lys  
 1 5 10 15  
 Ser Ala Leu Thr Val Gln Phe Val Thr Gly Thr Phe Ile Glu Lys Tyr  
 20 25 30  
 Asp Pro Thr Ile Glu Asp Phe Tyr Arg Lys Glu Ile Glu Val Asp Ser  
 35 40 45  
 Ser Pro Ser Val Leu Glu Ile Leu Asp Thr Ala Gly Thr Glu Gln Phe  
 50 55 60  
 Ala Ser Met Arg Asp Leu Tyr Ile Lys Asn Gly Gln Gly Phe Ile Leu  
 65 70 75 80  
 Val Tyr Ser Leu Val Asn Gln Gln Ser Phe Gln Asp Ile Lys Pro Met  
 85 90 95  
 Arg Asp Gln Ile Val Arg Val Lys Arg Tyr Glu Lys Val Pro Leu Ile  
 100 105 110  
 Leu Val Gly Asn Lys Val Asp Leu Glu Pro Glu Arg Glu Val Met Ser  
 115 120 125  
 Ser Glu Gly Arg Ala Leu Ala Gln Glu Trp Gly Cys Pro Phe Met Glu  
 130 135 140  
 Thr Ser Ala Lys Ser Lys Ser Met Val Asp Glu Leu Phe Ala Glu Ile  
 145 150 155 160  
 Val Arg Gln Met Asn Tyr Ser Ser Leu Pro Glu Lys Gln Asp Gln Cys  
 165 170 175  
 Cys Thr Thr Cys Val Val Gln  
 180

&lt;210&gt; 2589

&lt;211&gt; 114

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2589

```

Met Ala Ala His Pro Arg Arg Cys Pro Asp Asn Thr Cys Val Pro Cys
 1           5           10           15
Ile Gly Ser Leu Met Gly Leu Gly Asp Ile Ile Ser Gln Gln Leu Val
      20           25           30
Glu Arg Arg Gly Leu Gln Glu His Gln Arg Gly Arg Thr Leu Thr Met
      35           40           45
Val Ser Leu Gly Cys Gly Phe Val Val Ser Ser Pro Leu Asn Arg Ala
      50           55           60
Ser Val Asp Ser Thr Val Val Leu Val Leu Cys His Pro Leu Ala Ser
      65           70           75           80
Leu Gly Leu Ser His Leu Ser Gln Pro Ala Ala Leu Phe Phe Leu Ser
      85           90           95
Val His Phe Pro Tyr Ser Asp Thr Trp Gly Arg Glu Leu Ser Glu Val
      100          105          110
Glu Ala

```

<210> 2590

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2590

```

Met Pro Phe Ser Cys Asn Val Leu His Val His Val Lys Ser Ser Pro
 1           5           10           15
Ser Arg Pro Cys Leu Ala Leu Thr Leu Ile Pro Phe Glu Gly His Leu
      20           25           30
Leu Trp Thr Val Val Leu Cys Asn Leu Gln Ile Ser His Thr Leu Gln
      35           40           45
Gln Met Gln Ile His Ile Glu Ile Ser Gly Ser Ile Cys Gly Leu Glu
      50           55           60
Thr His Gly Ala Ile Phe Ile Phe Arg Ser Thr Ala Arg Phe Trp His

```

<210> 2591  
<211> 174  
<212> PRT  
<213> Homo sapiens

Met	Arg	Pro	Ser	Pro	Val	Gly	Leu	Arg	Asp	Arg	Lys	His	Met	Leu	Gly
1				5					10					15	
Gln	Gly	Tyr	Thr	His	Thr	His	Thr	His	Thr	His	Thr	His	Thr	His	Ser
			20					25					30		
Gly	Ala	Gly	Met	Asp	Met	Asn	Asn	Asn	Leu	Ser	Pro	Asn	Cys	Trp	Leu
		35				40						45			
Glu	Gln	Asp	Val	Gly	Cys	Lys	His	Arg	Gln	Ala	Ser	Asn	Thr	Pro	Pro
	50					55					60				
Leu	Gly	Leu	Arg	Cys	Pro	His	Ala	Val	Thr	Gln	Pro	Ala	Leu	His	Thr
65				70						75				80	
Cys	Val	Ser	Gln	Leu	His	Thr	Leu	Pro	Gly	Cys	Thr	Arg	Thr	Ser	Arg
			85						90					95	
Ala	Gly	Arg	Ser	His	Pro	His	Pro	Thr	Leu	Gln	Asn	Pro	Leu	Pro	Gln
		100						105					110		
Pro	His	Ser	Leu	Pro	Leu	Gly	Leu	Ala	Cys	Leu	Gly	Ser	Leu	Gly	Leu
	115					120						125			
Ala	Thr	Pro	Ala	Pro	Lys	Ile	Gly	Gly	Pro	Ala	Arg	Pro	Gly	Val	Arg
	130					135					140				
Pro	Gly	Gly	Lys	Glu	Trp	Gly	Thr	Leu	Thr	Pro	Ile	Gly	Leu	Ser	Pro
145				150						155				160	
Ala	Glu	Arg	Arg	Pro	Pro	Asn	Val	Leu	Leu	Cys	Pro	Gly	Gly		
			165					170							

&lt;210&gt; 2592

&lt;211&gt; 180

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2592

```

Met Tyr Thr His Ile His Met Cys Ile Cys Met Tyr Thr His Met His
  1             5             10             15
Met Cys Thr Tyr Val Cys Ile His Ile His Ile Cys Val His Ile Tyr
      20             25             30
Ile Cys Met Tyr Thr His Arg Tyr Met Cys Thr Arg Lys His Met Tyr
      35             40             45
Thr His Lys His Met Tyr Val Tyr Thr Tyr Ile Tyr Val Tyr Thr Tyr
      50             55             60
Thr Tyr Val Cys Val His Ile His Ile Cys Val His Ile Tyr Leu Cys
      65             70             75             80
Met Tyr Thr His Thr Tyr Met Cys Ala His Ile His Met Cys Val Tyr
      85             90             95
Thr Tyr Ile Tyr Val Tyr Ile Tyr Thr His Ile His Ile Cys Val His
      100            105            110
Ile Asn Met Tyr Val Ser Ile Tyr Val Tyr Ile Tyr Thr Cys Ile Gln
      115            120            125
Ile Tyr Ile Tyr Met Tyr Thr Leu Tyr Val Cys Thr Tyr Thr Tyr Met
      130            135            140
Cys Thr Tyr Ile His Ile Cys Ile His Thr Ser Ile Ile Tyr Val Cys
      145            150            155            160
Val Tyr Ile His Ile Gln Cys Pro Leu Asn Ile Tyr Ile Tyr Leu Val
      165            170            175
Cys Met Cys Val
      180

```

&lt;210&gt; 2593

&lt;211&gt; 108

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2593

Met Leu Val Phe Ala Leu Pro Pro Cys Pro Ser His Cys Tyr Ser Gly  
 1 5 10 15  
 Gln Phe Val Ala Leu Trp Leu Leu Met Ala Leu Cys Leu Val Ile Met  
 20 25 30  
 Gln Gly Ala Gln Gly Asn Lys Phe Ser Val Asp Ile Leu Lys Thr Asp  
 35 40 45  
 Ser Leu Thr Gly Val Leu Glu Leu Glu Lys Glu Thr Ala Val Asp Val  
 50 55 60  
 Trp Cys Gly Pro Ile Leu Arg Ala Leu Ser Val Arg Gln Glu Ser Tyr  
 65 70 75 80  
 Thr Cys Asp Thr Asn Phe Phe Arg Tyr His Cys Ser Ile Asn Ile Gln  
 85 90 95  
 Thr Ser Leu Ser Pro Cys Thr Pro Thr Ser Glu Asn  
 100 105

&lt;210&gt; 2594

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2594

Met Ile Pro Gly Pro Arg Phe His Arg Ala Glu Thr Ser His Trp Tyr  
 1 5 10 15  
 Cys Ser Val Val Cys His Ala Lys Pro Leu Thr Tyr Arg Leu His Glu  
 20 25 30  
 His Gly Leu Phe Met Gln Leu Ser Phe Arg Val Ile Tyr Cys Ala Asp  
 35 40 45  
 Ile Ile Thr Arg Thr Thr Leu Gln Phe Pro Ser Tyr Val Leu Leu Ser  
 50 55 60  
 Tyr Ile Leu Ser Val Leu Cys Val Leu Ile Leu Leu Ser Cys Thr Leu  
 65 70 75 80



Met Phe Phe Asn Ser Lys Thr Leu Tyr Ser Gln Cys Leu Cys Leu Tyr  
                     85                    90                    95  
 Ile His Ile Tyr Ile Lys Leu Ser Leu Leu Phe Ile Ile Phe Cys Ile  
                     100                    105                    110

<210> 2595

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2595

Met Phe Gly Ser Ser Arg Gly Gly Val Arg Gly Gly Gln Asp Gln Phe  
   1                    5                    10                    15  
 Asn Trp Glu Asp Val Lys Thr Asp Lys Gln Arg Glu Asn Tyr Leu Gly  
                     20                    25                    30  
 Asn Ser Leu Met Ala Pro Val Gly Arg Trp Gln Lys Gly Arg Asp Leu  
                     35                    40                    45  
 Thr Trp Tyr Ala Lys Gly Arg Ala Pro Cys Ala Gly Pro Ser Arg Glu  
                     50                    55                    60  
 Glu Glu Leu Ala Ala Val Arg Glu Ala Glu Arg Glu Ala Leu Leu Ala  
   65                    70                    75                    80  
 Ala Leu Gly Tyr Lys Asn Val Lys Lys Gln Pro Thr Gly Leu Ser Lys  
                     85                    90                    95  
 Glu Asp Phe Ala Glu Val Cys Lys Arg Glu Gly Gly Asp Pro Glu Glu  
                     100                    105                    110  
 Lys Gly Val Asp Arg Leu Leu Gly Leu Gly Ser Ala Arg Cys Gly Arg  
                     115                    120                    125  
 Val Ser Arg Gly Gly Gln His Trp Ala Arg Leu Leu Gly  
                     130                    135                    140

<210> 2596

<211> 189

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2596

Met His Thr Tyr Ile Tyr Met Cys Val Tyr Pro Tyr Ile Cys Ile Tyr  
 1 5 10 15  
 Met His Val Tyr Pro Cys Ile Cys Ile Tyr Leu His Val Tyr Thr Tyr  
 20 25 30  
 Ile Cys Met Tyr Ile His Ile Tyr Pro Tyr Leu Cys Met Tyr Val His  
 35 40 45  
 Ile Tyr Pro Tyr Ile Cys Thr Cys Ile Tyr Thr His Ile Cys Met Arg  
 50 55 60  
 Val His Val Tyr Ala Tyr Met Tyr Val Arg Thr Tyr Ile His Ile Met  
 65 70 75 80  
 Cys Met His Val Cys Val Tyr Val Cys Val His Ala Cys Met Cys Val  
 85 90 95  
 Cys Thr Cys Ala Tyr Thr His Val Phe Val Cys Val Arg Val Arg Thr  
 100 105 110  
 Cys Val Tyr Met Arg Thr His Thr His Ile Cys Val Tyr Ala Cys Ala  
 115 120 125  
 Cys Ala His Met Cys Val Cys Val Arg Val His Thr Tyr Val Cys Met  
 130 135 140  
 Arg Ala Tyr Ile His Ala Tyr Met Tyr Val Arg Thr Tyr Ile Cys Ile  
 145 150 155 160  
 Phe Met Phe Tyr Val Tyr Val Phe Tyr Met Tyr Ile Tyr Leu His Ile  
 165 170 175  
 Leu His Tyr Phe His Glu Glu Ile Gly Ala Gln Gly Ser  
 180 185

&lt;210&gt; 2597

&lt;211&gt; 258

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2597

Met Trp Arg Tyr Arg Ser Trp Asp Val Pro Gln Ile Pro Ser Glu Ala  
 1 5 10 15

Pro Gln Thr Gln Lys Ala Ile Thr Lys Ser Gly Leu Gln His Leu Ala  
                   20                                  25                                  30  
 Pro Pro Pro Pro Thr Pro Gly Ala Pro Cys Ser Glu Ser Glu Arg Gln  
                   35                                  40                                  45  
 Ile Arg Ser Thr Val Asp Trp Ser Glu Ser Ala Thr Tyr Gly Glu His  
                   50                                  55                                  60  
 Ile Trp Phe Glu Thr Asn Val Ser Gly Asp Phe Cys Tyr Val Gly Glu  
                   65                                  70                                  75                                  80  
 Gln Tyr Cys Val Ala Arg Met Leu Val Ser Ala Arg Arg Gly Thr Pro  
                                   85                                  90                                  95  
 Pro Pro Ala Gly Gly Ala Ser Ser Arg Ser Pro Ser Gly Asn Val Gly  
                                   100                                  105                                  110  
 Leu Ser Pro Leu Pro Gly Thr Pro Ala Val Gly Arg Pro Arg Met Val  
                                   115                                  120                                  125  
 Arg Gly Ala Gly Ala Leu Ser Gly Cys Gln Asp Trp Gly Phe Pro Val  
                                   130                                  135                                  140  
 His Thr Lys Gly Ser Cys Ala Gly Ala Gly Ser Leu Arg Asp Arg Leu  
                                   145                                  150                                  155                                  160  
 Thr Trp Cys Leu Arg Gly Pro Leu Phe Leu Ser Cys Ser Arg Ser Gln  
                                   165                                  170                                  175  
 Cys Leu Glu Glu Ser Ala Gln Pro Ala Arg Leu Trp Cys Thr Arg Pro  
                                   180                                  185                                  190  
 Ala Ser Ser Ser Trp Arg Arg Trp Val Gly Ser Ser Ala Leu Pro Ala  
                                   195                                  200                                  205  
 Pro Ala Leu Trp Val Leu Arg Pro Phe Gln Arg Ala Leu Thr Pro Thr  
                                   210                                  215                                  220  
 Cys Tyr Thr Asn Gly Leu Pro Gly Val Thr Gln His Ser Gly Val Lys  
                                   225                                  230                                  235                                  240  
 Ser Gln Gly Pro Trp Ser Gln Met Pro Ala Phe Glu Ser Trp Leu Leu  
                                   245                                  250                                  255

Thr Asp

&lt;211&gt; 159

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2598

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Met Tyr Lys Glu Arg Asn Lys Tyr Leu Lys Tyr Asn Leu Pro Asp Ser
  1              5              10              15
Gln Ala Ser Lys Met Pro Gly Arg Gly Ser Ala Arg Ala Lys Leu Thr
      20              25              30
His Ser Gly Gln Ser Val Ser Phe Pro Pro His Gly Lys Asp Glu Ile
      35              40              45
Ser Ser Gln Lys Ile Arg Cys Ala Gly Gly Lys Arg Glu Trp Gly Glu
      50              55              60
Gly Glu Gly Gly Lys Lys Arg Val Ala Arg Arg Gln Glu Cys Val Ser
      65              70              75              80
Val Ser Arg Lys Phe Ser Gln Met Ile Leu Ser Arg Leu Thr His Phe
      85              90              95
Val Thr Leu Ser Leu Thr Leu Glu Arg Arg Gly Lys Thr Gln Pro Pro
      100             105             110
Phe Phe Phe Pro Leu Ile Ile Pro His Tyr Leu His Thr Ala Leu Glu
      115             120             125
Ser Glu Met Ser Thr Arg Ser Gly Arg Cys Pro Ala Ala Ala Cys His
      130             135             140
Arg Cys Gly Pro Phe Val Thr Cys Lys Val Cys Cys Phe Cys Pro
      145             150             155

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&lt;210&gt; 2599

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2599

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Met Glu Ala Gly Pro His Pro Arg Pro Gly His Cys Cys Lys Pro Gly
  1              5              10              15
Gly Arg Leu Asp Met Asn His Gly Phe Val His His Ile Arg Arg Asn

```

	20		25		30										
Gln	Ile	Ala	Arg	Asp	Asp	Tyr	Asp	Lys	Lys	Val	Lys	Gln	Ala	Ala	Lys
	35		40		45										
Glu	Lys	Val	Arg	Arg	Arg	His	Thr	Pro	Ala	Pro	Thr	Arg	Pro	Arg	Lys
	50		55		60										
Pro	Asp	Leu	Gln	Val	Tyr	Leu	Pro	Arg	His	Arg	Gly	Glu	Ala	Ala	Arg
	65		70		75										80
Pro	Ala	Cys	Leu	Gln	Pro	Ala	Arg	Ser	Ser	Cys	Asn	Ala	Leu	Pro	Phe
			85				90						95		
Ser	Ile	Gly	Lys	Asn	His	Phe	Leu	Leu	Leu	Arg	Phe	Ser	Ser	Ser	Arg
	100						105						110		
Leu	Phe	Pro	Glu	Pro	Pro	Pro	Gln	Arg	Ser	Gln	Ile	Ser	Ala	Glu	
	115						120						125		

&lt;210&gt; 2600

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2600

Met	Pro	Val	Gly	Glu	Arg	Gly	Phe	Ala	Arg	Val	Tyr	Val	Phe	Phe	Lys
1				5					10					15	
Thr	Val	Asp	Leu	Tyr	Asn	Trp	Lys	Ser	His	Ser	Lys	Gly	Leu	Trp	Val
			20						25					30	
Ser	Pro	Arg	Glu	Phe	Val	Thr	Leu	Ile	Trp	Arg	Ile	Phe	Ser	Thr	His
			35						40					45	
Asn	Pro	Thr	Trp	Pro	Gly	Val	Gln	Thr	Val	Thr	Ala	Thr	Leu	Leu	Thr
		50					55					60			
Ala	Glu	Asp	Lys	Ser	Ala	Thr	Met	Ala	Lys	Thr	Lys	Glu	Glu	Ala	Asp
	65				70					75					80
Asn	Met	Cys	Ala	Asp	Asn	Leu	Val	Thr	Trp	Pro	Val	Glu	Val	Ser	Val
				85					90					95	
Pro	Ile	Ala	Asn	Pro	Asn	Trp	Asp	Pro	Ser	Asp	Asn	Lys	Asn	Gln	Glu
			100						105					110	
Trp	Leu	His	His	Tyr	Arg	Asn	Met	Leu	Leu	Arg	Gly	Met	Arg	Glu	Ala

115                      120                      125  
 Ser Gln Ser Leu Val Asn Trp Gly Asn Leu Arg Glu Ile Glu Gln Gly  
 130                      135                      140  
 Pro Asn Glu Asn Pro Ser Ala Phe Leu Asn  
 145                      150

<210> 2601

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2601

Met Val Ser Phe Ser Thr Gly Pro Ser Arg His Pro Ser Leu Ile Ser  
 1                      5                      10                      15  
 Ser Asp Ser Asn Asn Leu Lys Leu Asn Asn Val Arg Leu Pro Arg Glu  
 20                      25                      30  
 Asn Met Ser Leu Pro Ser Asn Leu Gln Leu Asn Asp Leu Thr Pro Asp  
 35                      40                      45  
 Ser Arg Ala Val Lys Pro Ala Asp Arg Gln Met Ala Gln Asn Asn Ser  
 50                      55                      60  
 Arg Pro Glu Leu Leu Asp Pro Glu Pro Gly Gly Leu Leu Thr Ser Gln  
 65                      70                      75                      80  
 Gly Phe Ile Arg Leu Pro Val Leu Gly Tyr Ile Tyr Arg Val Ser Ser  
 85                      90                      95  
 Val Ser Ser Asp Glu Ile Trp Leu  
 100

<210> 2602

<211> 888

<212> PRT

<213> Homo sapiens

<400> 2602

Met His Cys Pro Gly Glu Ala Pro Leu Ala Ala Pro Arg Pro Thr Pro

1	5	10	15
Lys Asp Pro Cys Leu Arg Asn Val Leu Ala Lys Ala Leu Tyr Asp Asn			
20	25	30	
Val Ala Glu Ser Pro Asp Glu Leu Ser Phe Arg Lys Gly Asp Ile Met			
35	40	45	
Thr Val Leu Glu Gln Asp Thr Gln Gly Leu Asp Gly Trp Trp Leu Cys			
50	55	60	
Ser Leu His Gly Arg Gln Gly Ile Val Pro Gly Asn Arg Leu Lys Ile			
65	70	75	80
Leu Val Gly Met Tyr Asp Lys Lys Pro Ala Gly Pro Gly Pro Gly Pro			
85	90	95	
Pro Ala Thr Pro Ala Gln Pro Gln Pro Gly Leu His Ala Pro Ala Pro			
100	105	110	
Pro Ala Ser Gln Tyr Thr Pro Met Leu Pro Asn Thr Tyr Gln Pro Gln			
115	120	125	
Pro Asp Ser Val Tyr Leu Val Pro Thr Pro Ser Lys Ala Gln Gln Gly			
130	135	140	
Leu Tyr Gln Val Pro Gly Pro Ser Pro Gln Phe Gln Ser Pro Pro Ala			
145	150	155	160
Lys Gln Thr Ser Thr Phe Ser Lys Gln Thr Pro His His Pro Phe Pro			
165	170	175	
Ser Pro Ala Thr Asp Leu Tyr Gln Val Pro Pro Gly Pro Gly Gly Pro			
180	185	190	
Ala Gln Asp Ile Tyr Gln Val Pro Pro Ser Ala Gly Met Gly His Asp			
195	200	205	
Ile Tyr Gln Val Pro Pro Ser Met Asp Thr Arg Ser Trp Glu Gly Thr			
210	215	220	
Lys Pro Pro Ala Lys Val Val Val Pro Thr Arg Val Gly Gln Gly Tyr			
225	230	235	240
Val Tyr Glu Ala Ala Gln Pro Glu Gln Asp Glu Tyr Asp Ile Pro Arg			
245	250	255	
His Leu Leu Ala Pro Gly Pro Gln Asp Ile Tyr Asp Val Pro Pro Ile			
260	265	270	
Arg Gly Leu Leu Pro Ser Gln Tyr Gly Gln Glu Val Tyr Asp Thr Pro			
275	280	285	
Pro Met Ala Val Lys Gly Pro Asn Gly Arg Asp Pro Leu Leu Glu Val			

290	295	300	
Tyr Asp Val Pro Pro Ser Val Glu Lys Gly Leu Pro Pro Ser Asn His			
305	310	315	320
His Ala Val Tyr Asp Val Pro Pro Ser Val Ser Lys Asp Val Pro Asp			
	325	330	335
Gly Pro Leu Leu Arg Glu Glu Thr Tyr Asp Val Pro Pro Ala Phe Ala			
	340	345	350
Lys Ala Lys Pro Phe Asp Pro Ala Arg Thr Pro Leu Val Leu Ala Ala			
	355	360	365
Pro Pro Pro Asp Ser Pro Pro Ala Glu Asp Val Tyr Asp Val Pro Pro			
370	375	380	
Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly Leu Arg Arg Pro Gly			
385	390	395	400
Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg Val Leu Pro Pro Glu			
	405	410	415
Val Ala Asp Gly Gly Val Val Asp Ser Gly Val Tyr Ala Val Pro Pro			
	420	425	430
Pro Ala Glu Arg Glu Ala Pro Ala Glu Gly Lys Arg Leu Ser Ala Ser			
	435	440	445
Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala Ser Ser Leu Glu Val			
450	455	460	
Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu Val Ala Val Glu Ala			
465	470	475	480
Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr Val Ala His Leu Leu			
	485	490	495
Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser Trp Arg Ser Pro Ser			
500	505	510	
Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln Ala Ala Val Ala Ala			
515	520	525	
Val Gln Ser Ala Val His Glu Leu Leu Glu Phe Ala Arg Ser Ala Val			
530	535	540	
Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu His Ala Lys Leu Ser			
545	550	555	560
Arg Gln Leu Gln Lys Met Glu Asp Val His Gln Thr Leu Val Ala His			
	565	570	575



Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser Gly Ala Thr Leu Glu  
 580 585 590  
 Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala Val Pro Glu Asp Ala  
 595 600 605  
 Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala Ser Leu Leu Phe Arg  
 610 615 620  
 Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly Gly Gly Thr Leu His  
 625 630 635 640  
 Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln Ser Arg Pro Leu Pro  
 645 650 655  
 Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro Asp Gly Gln Tyr Glu  
 660 665 670  
 Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp Tyr Val His Leu Gln  
 675 680 685  
 Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Glu Leu Leu Glu Lys Gly  
 690 695 700  
 Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu Leu Gln Gln Leu Lys  
 705 710 715 720  
 Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg Leu Ile Asp His Asp  
 725 730 735  
 Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala Pro Gly Arg Thr Gly  
 740 745 750  
 Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu Phe Tyr Leu Glu Gln  
 755 760 765  
 Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala Val Asp Ala Phe Phe  
 770 775 780  
 Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile Phe Val Ala His Ser  
 785 790 795 800  
 Lys Phe Val Ile Leu Ser Ala His Lys Leu Val Phe Ile Gly Asp Thr  
 805 810 815  
 Leu Ser Arg Gln Ala Lys Ala Ala Asp Val Arg Ser Gln Val Thr His  
 820 825 830  
 Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly Ile Val Ala Thr Thr  
 835 840 845  
 Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser Ala Ala Gln Asp Met  
 850 855 860

Val Glu Arg Val Lys Glu Leu Gly His Ser Thr Gln Gln Phe Arg Arg  
 865 870 875 880

Val Leu Gly Gln Leu Ala Ala Ala  
 885

<210> 2603

<211> 136

<212> PRT

<213> Homo sapiens

<400> 2603

Met Pro Gly Gly Gly Asn Leu Arg Ser Gly Lys Asn Phe Val Leu Phe  
 1 5 10 15  
 Pro Glu Lys Lys Lys Lys Lys Lys Lys Asp His Arg Val Arg Arg Asn  
 20 25 30  
 Phe Phe Phe Leu Arg Trp Arg Leu Leu Ser Pro Arg Leu Glu Cys Ser  
 35 40 45  
 Gly Ala Ile Ser Ala His Cys Asn Phe Cys Leu Pro Gly Ser Ser Asn  
 50 55 60  
 Ser Pro Ala Ser Ala Ser Arg Ile Ala Gly Ile Thr Gly Ala His His  
 65 70 75 80  
 His Ala Trp Leu Ile Phe Val Phe Leu Val Asp Thr Gly Phe His Gln  
 85 90 95  
 Val Gly Gln Thr Cys Leu Lys Leu Leu Thr Ser Ser Asp Leu Pro Ala  
 100 105 110  
 Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser His Tyr Ala Arg  
 115 120 125  
 Arg Glu Arg Asp Ile Asn Leu Lys  
 130 135

<210> 2604

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2604

```

Met Val Ser Thr Trp Arg Pro Lys Glu Ala Ala Ser Arg Ala Arg Asp
 1              5              10              15
Ile Ala Thr Glu Val Ser Pro Trp Leu Ala Ala Ser Ala Ser Ala Ser
      20              25              30
Ala Pro Ser Trp Met Glu Asp Glu Gly Ser Asn Ser Gly Lys Gln Arg
      35              40              45
Pro Arg Glu Ala Ala Asp Phe Ser Ile Pro Pro Ser Gly Phe Arg Leu
      50              55              60
Gly Arg Cys Thr Ala Val Arg Gly Arg Ala His Val Gly Ser Gln Cys
      65              70              75              80
Val Gln Glu Cys Val Tyr Leu Glu Glu Cys Val Cys Glu Cys Val Pro
      85              90              95
Gly Pro Val Leu Val Cys Arg Cys
      100

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<210> 2605

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2605

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Met Glu Arg Ile Leu Pro Gln Leu Pro Ser Arg Gly His Lys Ser Ser
 1              5              10              15
Glu Leu His Ser Leu Glu Ser Arg Pro Thr Gly Leu His Thr His Val
      20              25              30
Pro Glu Ile Ser Leu Val Pro Pro Thr Pro Ser Gly Asn Gln Thr Ser
      35              40              45
Ala His Arg Arg Asp Val Ile Leu Arg Val Gln Pro Pro Thr Ser Thr
      50              55              60
Gly Pro Pro Leu Pro Pro Leu Ser Leu Val Asn Arg Ala Ile Pro Cys
      65              70              75              80
Leu Arg Pro Gly Pro Val Asp Ser Asp Leu Thr Ala Asn Met Gly Gln

```

	85		90		95
Gln Ser Gly Thr Ser Val Tyr Arg Ala Ser Ser Pro Arg Ser Ser Ala					
	100		105		110
Cys Gln Lys Glu Gly Asp Gln Pro Pro Gly Gly Ala Gln Ser Ser Ala					
	115		120		125
Gly Leu Gly Leu Val Arg Arg Glu Asn Arg Val Ser Arg Gly Trp Val					
	130		135		140
Ser Lys Ser Glu His Ser Thr Ser Gly Gln Gly Thr Ser Ala Asp Thr					
145		150		155	160
His Arg Ser Arg					

&lt;210&gt; 2606

&lt;211&gt; 187

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2606

Met Ala Ala Ala Gly Pro Met Thr Gly Ala Ala Ala Ser Arg Ala Ala			
1	5	10	15
Thr Ala Ala His Cys Ser Gly Gly Ser Lys Val Glu Ala Val Arg Gly			
	20	25	30
Ala Val Gln Gly Ala Ala Gly Val Lys Pro Pro Val Ala Ala Ala Pro			
	35	40	45
Ser Leu Leu Trp Leu Cys Pro Pro Gly Pro Pro Val Leu Leu Asp Pro			
	50	55	60
Leu Pro Ser Trp Thr Leu Cys Pro Pro Gly Pro Pro Ser Leu Leu Gly			
	65	70	75
Pro Pro Gly Pro Pro Ala Leu Leu Asp Pro Leu Ser Ser Trp Thr Pro			
	85	90	95
Cys Pro Pro Gly Pro Pro Val Cys Gly Pro Cys Ser Ser Pro Pro Ser			
	100	105	110
Pro Thr His Asp Trp Thr Pro Arg Ser Ala Ala Gly Val Trp Ala Leu			
	115	120	125
Gly Val Leu Trp Ala Ser Arg Cys Leu Gly Thr Ile Thr Gly Ser Arg			

130                      135                      140  
 Ala His Thr Gln Pro Leu Leu Pro Glu His Thr Arg Gly Ser Arg His  
 145                      150                      155                      160  
 Pro Asp Glu Ser Thr Val Pro Ala Met Val Phe Arg Asp Gly Glu Gly  
                          165                      170                      175  
 Ser Leu Ser Ser Ala Gly Thr Leu Gln Pro Gly  
                          180                      185

<210> 2607

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2607

Met Glu Asp Glu Arg Ile Leu Asp Asn Leu Gly Ala Glu Gly Leu His  
   1                      5                      10                      15  
 Gly Ser Glu Trp Glu Trp Arg Arg Trp His Phe Gly Gly Trp Val Glu  
                          20                      25                      30  
 Glu Glu His Arg His Arg Trp Pro Arg Gly Val Trp Ser Thr Asp Lys  
                          35                      40                      45  
 Ser Pro Gly Gly Val Gln Pro Gln Cys Leu Ser Gln Glu Val Ser Ala  
                          50                      55                      60  
 Leu Val Ser Gly Thr Gln Ser Ser Leu Arg Asn Gly Leu Gly Asp Lys  
   65                      70                      75                      80  
 Trp Ser Ala Cys Cys Thr Arg Ala Leu Gly Glu Cys Ala Trp Ser Cys  
                          85                      90                      95  
 Leu Ser Gly His His  
                          100

<210> 2608

<211> 101

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2608

Met Ser Leu Leu Lys Ser Tyr Cys Lys Leu Arg Ala Asn Cys Asn Leu  
 1 5 10 15  
 Leu Phe Leu Phe Val Ala Arg Gly Leu His Arg Ser Leu Asn Ile Cys  
 20 25 30  
 Phe Pro Cys His Pro Ala Phe Arg Gly Trp Pro Ala Ile His Thr Pro  
 35 40 45  
 Asn Pro Pro Cys Val Ser Asp Ser Trp Pro His Val Asn Phe Cys Thr  
 50 55 60  
 Cys Leu Phe Leu Gly Gly Val Glu Ala Asn Pro Phe Ser Ser Glu Ala  
 65 70 75 80  
 Ser Gly Phe Cys Phe Phe Ser Gly Leu Trp Val Glu Gly Lys Thr Pro  
 85 90 95  
 Lys Ala Pro Leu Ser  
 100

&lt;210&gt; 2609

&lt;211&gt; 546

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2609

Met Ser Ser Ala Trp Lys Thr Pro Arg Gly Ser Asp Ala Met Pro Glu  
 1 5 10 15  
 Ile Met Val Lys Ile Ile Gly Ser Lys His Phe Gln Tyr Leu Val Glu  
 20 25 30  
 Lys Pro Lys Ile Lys Glu Asn Asp Ser Leu Lys Thr Glu Thr Gln Thr  
 35 40 45  
 Met His Gln Lys Pro Met Thr Asp Asn Ala Arg Gln Met Ser Arg Asp  
 50 55 60  
 Thr Pro Val Pro Ile Asn Phe Thr Asp Gln Gln Thr Thr Asp Asn Pro  
 65 70 75 80  
 Asp Asp Val Lys Glu Lys Lys His Pro Glu Asn Asn Gln Lys Ser Gly  
 85 90 95  
 Asn Asn Gln Lys Leu Leu Thr Gly Ala Asn Ser Ser Arg Phe Leu Asp

100	105	110
Gly Asn Ile Pro Ser Gln Ala Asn Val His Cys Ser Ser Val Pro Thr		
115	120	125
Gly Asp Gln Ser Leu Ser Tyr Val His Gly Ile Pro Arg Arg Lys Leu		
130	135	140
Arg Asp Trp Ser Leu Glu Gln Met Val Arg Gly Ser Ser Asp Gln Pro		
145	150	155
Glu Asp Ile Gly Gln Ser Pro Ser Gly Thr Thr Asn Glu Asp Ala Phe		
165	170	175
Leu Leu Ala Leu Val Arg Arg Glu Leu Lys Ser Arg Pro Leu Ser Ser		
180	185	190
Asn Leu Leu Glu Lys Leu Gln Lys Glu Leu Lys Ile Leu Asp Pro Ile		
195	200	205
Ser Ser Gly Phe Leu Leu Gln Ser Gln Leu Ser Arg Leu Phe Leu Lys		
210	215	220
His Glu Val Pro Leu Gln Leu Pro Thr Val Lys Ile Leu Cys Gln Arg		
225	230	235
Phe Ser Lys Arg Gly Ser Pro Glu Met Val Asn Tyr Glu Lys Leu Leu		
245	250	255
Trp Phe Leu Asn Ser Ala Ala Ser Asp Tyr Pro Gln Gln Asn Lys Ala		
260	265	270
Ala Ala Asp Leu Arg Lys Thr Glu Ser His Gly Thr His Ser Gln Ser		
275	280	285
Thr Pro Pro Gln His Ser Ser Ser Gln Pro Glu Val Asn Arg Ser Leu		
290	295	300
Leu Glu Ile Leu Lys Met Ala Leu Arg Thr Thr Asn Gly Arg Leu Asn		
305	310	315
Ile Asp Asn Leu Asn Leu Ser Phe Arg Lys Glu Asp Arg Ser Phe Ser		
325	330	335
Gly Cys Leu Pro Leu Pro Lys Val Arg Ala Ile Cys Gly Lys His Gly		
340	345	350
Leu Tyr Leu Thr Leu Ser Leu Leu Glu Thr Leu Leu Asn His Gln Asp		
355	360	365
Leu Gly Tyr Gln Asn Glu Ile Lys Trp Gln Asn Phe Val Glu Met Leu		
370	375	380
Thr Arg Ala Ser Ser Asp Leu Leu Ser Asp Leu Pro Thr Gly Lys Asn		

385                      390                      395                      400  
 Glu Lys Lys Ala Pro Ala Pro Pro Met Glu Pro Glu Val Pro Glu Met  
                             405                      410                      415  
 Ser Gln Ser Lys Thr Glu His Met Lys Thr Pro Glu Glu Glu Leu Gln  
                             420                      425                      430  
 Pro Glu Ser Ser Pro Ala Glu Thr Ser Ala Cys Lys Asp Pro Leu Lys  
                             435                      440                      445  
 Pro Leu Lys Ile Arg Pro Val Ser Gln Pro Phe Val Asn Pro Ala Val  
                             450                      455                      460  
 Lys Asn Lys Ala Glu Glu Cys Glu Thr Trp Ile Asp Arg Phe Arg Lys  
 465                      470                      475                      480  
 Leu Glu Asn Ala Leu Tyr Leu Cys Asp Leu Ser Asn Thr Gly Val Leu  
                             485                      490                      495  
 Glu Lys Glu Arg Ala Arg Arg Leu Ile His Asn Tyr Asn Leu Ile Tyr  
                             500                      505                      510  
 Asn Leu Ser Leu Ser Pro Gln Lys Ile Asp Gln Ala Leu Arg Arg Phe  
                             515                      520                      525  
 Arg Ser Gly Glu Asn Met Leu Leu Glu Pro Ala Leu Arg Tyr Leu Lys  
                             530                      535                      540  
 Glu Leu  
 545

<210> 2610

<211> 347

<212> PRT

<213> Homo sapiens

<400> 2610

Met Pro Gly Lys Pro Lys His Leu Gly Val Pro Asn Gly Arg Met Val  
   1                      5                      10                      15  
 Leu Ala Val Ser Asp Gly Glu Leu Ser Ser Thr Thr Gly Pro Gln Gly  
                             20                      25                      30  
 Gln Gly Glu Gly Arg Gly Ser Ser Leu Ser Ile His Ser Leu Pro Ser  
                             35                      40                      45  
 Gly Pro Ser Ser Pro Phe Leu Ala Phe Val Ser Ser Lys Ser Glu Ser



50	55	60
His Arg Lys Ser Leu Gly Ser Thr Glu Gly Glu Ser Glu Ser Arg Pro		
65	70	75
Gly Lys Tyr Cys Cys Val Tyr Leu Pro Asp Gly Thr Ala Ser Leu Ala		
85	90	95
Leu Ala Arg Pro Gly Leu Thr Ile Arg Asp Met Leu Ala Gly Ile Cys		
100	105	110
Glu Lys Arg Gly Leu Ser Leu Pro Asp Ile Lys Val Tyr Leu Val Gly		
115	120	125
Asn Glu Gln Lys Ala Leu Val Leu Asp Gln Asp Cys Thr Val Leu Ala		
130	135	140
Asp Gln Glu Val Arg Leu Glu Asn Arg Ile Thr Phe Glu Leu Glu Leu		
145	150	155
Thr Ala Leu Glu Arg Val Val Arg Ile Ser Ala Lys Pro Thr Lys Arg		
165	170	175
Leu Gln Glu Ala Leu Gln Pro Ile Leu Glu Lys Arg Gly Leu Ser Pro		
180	185	190
Leu Glu Val Val Leu His Arg Pro Gly Glu Lys Gln Pro Leu Asp Leu		
195	200	205
Gly Lys Leu Val Ser Ser Val Ala Ala Gln Arg Leu Val Leu Asp Thr		
210	215	220
Leu Pro Gly Val Lys Ile Ser Lys Ala Arg Asp Lys Ser Pro Cys Arg		
225	230	235
Ser Gln Gly Cys Pro Pro Arg Thr Gln Asp Lys Ala Thr His Pro Pro		
245	250	255
Pro Ala Ser Pro Ser Ser Leu Val Lys Val Pro Ser Ser Ala Thr Gly		
260	265	270
Lys Arg Gln Thr Cys Asp Ile Glu Gly Leu Val Glu Leu Leu Asn Arg		
275	280	285
Val Gln Ser Ser Gly Ala His Asp Gln Arg Gly Leu Leu Arg Lys Glu		
290	295	300
Asp Leu Val Leu Pro Glu Phe Leu Gln Leu Pro Ala Gln Gly Pro Ser		
305	310	315
Ser Glu Glu Thr Pro Pro Gln Thr Lys Ser Ala Ala Gln Pro Ile Gly		
325	330	335
Gly Ser Leu Asn Ser Thr Thr Asp Ser Ala Leu		

340

345

&lt;210&gt; 2611

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2611

Met Ile Ala Gly Ser Gly Thr Arg Ala His Ala Arg Ala Arg Leu Trp

1 5 10 15

Asp Pro Trp Leu Ile Asp Gly Pro Cys Ser Pro Arg Asn Leu Val Pro

20 25 30

Ala Ala Pro Ser Ala Pro Arg Thr Ala Val Arg Leu Ser Arg Leu Val

35 40 45

Pro Ala Gly Asn Ser Val Arg Cys Gly Ala Leu Asp Ala Ala Pro Gly

50 55 60

Gln Arg Ser Gly Pro Thr Val Ala Ala Gly Phe Pro Gln Gly Gly Ala

65 70 75 80

Arg Ala Arg Ala Thr Pro Arg Arg Leu Pro Gly His Arg Arg Pro Arg

85 90 95

Gly Ala Arg Gly Ala Gln Arg Gly Gly Ser Pro Asp Ser Ala His Gly

100 105 110

Ser Arg Pro Ala Glu Ala Gly Val Ser Ala Gln Cys Arg Glu Met

115 120 125

&lt;210&gt; 2612

&lt;211&gt; 135

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2612

Met Ala Ala Ser Gly Arg Gly Leu Cys Lys Ala Val Ala Ala Ser Pro

1 5 10 15

Phe Pro Ala Trp Arg Arg Asp Asn Thr Glu Ala Arg Gly Gly Leu Lys

20	25	30
Pro Glu Tyr Asp Ala Val Val Ile Gly Ala Gly Lys Val Val Lys Gln		
35	40	45
Ala Gly Pro Glu Leu Arg Gly Gly Lys Thr Ala Leu Leu Arg Ala Trp		
50	55	60
Trp Gly Gly Gly Gly Gly Ala Lys Pro His Cys Ser Leu Leu Trp His		
65	70	75
Asn Pro Ala Arg Ser Leu Tyr Ala Ser Arg Gly Cys Asn Gly Lys Pro		
85	90	95
Phe His Leu Ala Gly Arg His Leu Gly Phe Arg Cys Trp Leu Cys Cys		
100	105	110
Val Ala Trp Gly Lys Cys Leu Pro Ser Leu Gly Leu Asp Leu Pro Met		
115	120	125
Glu Asn Asp Arg Lys Thr Arg		
130	135	

&lt;210&gt; 2613

&lt;211&gt; 575

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2613

Met Ala Thr Thr Ala Thr Cys Thr Arg Phe Thr Asp Asp Tyr Gln Leu		
1	5	10
Phe Glu Glu Leu Gly Lys Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr		
20	25	30
Ala Ala Lys Ile Ile Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln		
35	40	45
Lys Leu Glu Arg Glu Ala Arg Ile Cys Arg Leu Leu Lys His Pro Asn		
50	55	60
Ile Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu		
65	70	75
Val Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala		
85	90	95
Arg Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile His Gln Ile		

100	105	110
Leu Glu Ser Val Asn His Ile His Gln His Asp Ile Val His Arg Asp		
115	120	125
Leu Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly Ala Ala		
130	135	140
Val Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Glu Gln		
145	150	155
Gln Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu		
165	170	175
Val Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Ile Trp Ala Cys		
180	185	190
Gly Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp		
195	200	205
Glu Asp Gln His Lys Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp		
210	215	220
Phe Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asn Leu		
225	230	235
Ile Asn Gln Met Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Asp		
245	250	255
Gln Ala Leu Lys His Pro Trp Val Cys Gln Arg Ser Thr Val Ala Ser		
260	265	270
Met Met His Arg Gln Glu Thr Val Glu Cys Leu Arg Lys Phe Asn Ala		
275	280	285
Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr Met Leu Val Ser Arg		
290	295	300
Asn Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly		
305	310	315
Val Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu Val Ser Pro Ala Gln		
325	330	335
Glu Pro Ala Pro Leu Gln Thr Ala Met Glu Pro Gln Thr Thr Val Val		
340	345	350
His Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn Thr		
355	360	365
Thr Thr Glu Asp Glu Asp Leu Lys Ala Ala Pro Leu Arg Thr Gly Asn		
370	375	380
Gly Ser Pro Val Pro Glu Gly Arg Ser Ser Arg Asp Arg Thr Ala Pro		

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385          390          395          400
Ser Ala Gly Met Gln Pro Gln Pro Ser Leu Cys Ser Ser Ala Met Arg
          405          410          415
Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile Asn
          420          425          430
Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu Thr
          435          440          445
Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe
          450          455          460
His Lys Phe Tyr Phe Glu Asn Arg Glu Trp Val Arg Ala Ala Asp Ile
465          470          475          480
Leu Leu Pro Ala Pro Leu Pro Leu Cys Leu Cys Leu Leu Leu Thr Phe
          485          490          495
Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu
          500          505          510
Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala
          515          520          525
Pro Leu Lys Ala Leu Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser
          530          535          540
Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu
545          550          555          560
Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly
          565          570          575

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<210> 2614

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2614

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Met Glu Ala Gln Pro Gly Lys Lys Val Gly Lys Gly Asp Arg Val Phe
  1              5              10              15
Gly Val Gly Leu Asn Val Met Leu Thr Phe Pro Glu Glu Ser Trp Pro
          20              25              30
Val Pro Thr Gln Gly Thr Gly Arg Cys Leu Glu Ala Ala Ala Thr Gly

```

35                      40                      45  
 Gly Pro Arg Ser Ser Ala Gln Arg Pro Arg Pro Arg Ala Leu Ala Gly  
 50                      55                      60  
 Gly Glu Ser Ser Gly Cys Trp Ser Trp Gly Leu Arg Gly Ser Trp Glu  
 65                      70                      75                      80  
 Leu Gln Ala Trp Trp Ala Trp Gly Trp Gly Gly Glu Gly Gly Gln Ser  
 85                      90                      95  
 Ser His Arg Pro  
 100

<210> 2615

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2615

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Pro Lys Pro  
 1                      5                      10                      15  
 Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala  
 20                      25                      30  
 Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro  
 35                      40                      45  
 Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro  
 50                      55                      60  
 Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val  
 65                      70                      75                      80  
 Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg  
 85                      90                      95  
 Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His  
 100                      105                      110  
 Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe  
 115                      120                      125  
 Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg  
 130                      135                      140

&lt;210&gt; 2616

&lt;211&gt; 440

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2616

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Met Ala Val Arg Glu Lys Val Phe Asp Val Ile Ile Arg Cys Phe Lys
  1             5             10            15
Arg His Gly Ala Glu Val Ile Asp Thr Pro Val Phe Glu Leu Lys Glu
      20             25            30
Thr Leu Met Gly Lys Tyr Gly Glu Asp Ser Lys Leu Ile Tyr Asp Leu
      35             40            45
Lys Asp Gln Gly Gly Glu Leu Leu Ser Leu Arg Tyr Asp Leu Thr Val
      50             55            60
Pro Phe Ala Arg Tyr Leu Ala Met Asn Lys Leu Thr Asn Ile Lys Arg
      65             70            75            80
Tyr His Ile Ala Lys Val Tyr Arg Arg Asp Asn Pro Ala Met Thr Arg
      85             90            95
Gly Arg Tyr Arg Glu Phe Tyr Gln Cys Asp Phe Asp Ile Ala Gly Asn
      100            105            110
Phe Asp Pro Met Ile Pro Asp Ala Glu Cys Leu Lys Ile Met Cys Glu
      115            120            125
Ile Leu Ser Ser Leu Gln Ile Gly Asp Phe Leu Val Lys Val Asn Asp
      130            135            140
Arg Arg Ile Leu Asp Gly Met Phe Ala Ile Cys Gly Val Ser Asp Ser
      145            150            155            160
Lys Phe Arg Thr Ile Cys Ser Ser Val Asp Lys Leu Asp Lys Val Ser
      165            170            175
Trp Glu Glu Val Lys Asn Glu Met Val Gly Glu Lys Gly Leu Ala Pro
      180            185            190
Glu Val Ala Asp Arg Ile Gly Asp Tyr Val Gln Gln His Gly Gly Val
      195            200            205
Ser Leu Val Glu Gln Leu Leu Gln Asp Pro Lys Leu Ser Gln Asn Lys
      210            215            220
Gln Ala Leu Glu Gly Leu Gly Asp Leu Lys Leu Leu Phe Glu Tyr Leu

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225	230	235	240
Thr Leu Phe Gly Ile Asp Asp Lys Ile Ser Phe Asp Leu Ser Leu Ala			
	245	250	255
Arg Gly Leu Asp Tyr Tyr Thr Gly Val Ile Tyr Glu Ala Val Leu Leu			
	260	265	270
Gln Thr Pro Ala Gln Ala Gly Glu Glu Pro Leu Gly Val Gly Ser Val			
	275	280	285
Ala Ala Gly Gly Arg Tyr Asp Gly Leu Val Gly Met Phe Asp Pro Lys			
	290	295	300
Gly Arg Lys Val Pro Cys Val Gly Leu Ser Ile Gly Val Glu Arg Ile			
305	310	315	320
Phe Ser Ile Val Glu Gln Arg Leu Glu Ala Leu Glu Glu Lys Ile Arg			
	325	330	335
Thr Thr Glu Thr Gln Val Leu Val Ala Ser Ala Gln Lys Lys Leu Leu			
	340	345	350
Glu Glu Arg Leu Lys Leu Val Ser Glu Leu Trp Asp Ala Gly Ile Lys			
	355	360	365
Ala Glu Leu Leu Tyr Lys Lys Asn Pro Lys Leu Leu Asn Gln Leu Gln			
	370	375	380
Tyr Cys Glu Glu Ala Gly Ile Pro Leu Val Ala Ile Ile Gly Glu Gln			
385	390	395	400
Glu Leu Lys Asp Gly Val Ile Lys Leu Arg Ser Val Thr Ser Arg Glu			
	405	410	415
Glu Val Asp Val Arg Arg Glu Asp Leu Val Glu Glu Ile Lys Arg Arg			
	420	425	430
Thr Gly Gln Pro Leu Cys Ile Cys			
	435	440	

&lt;210&gt; 2617

&lt;211&gt; 175

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2617

Met Pro Gln Trp Leu Val Ala Ser Ile Ile Pro Gly Cys Val Cys Glu



1	5	10	15
Ser Val Ser Arg Gly Asp Ser His Val Ser Gln Arg Ala Glu Lys Glu			
20	25	30	
Thr Arg Ser Gln Cys Glu Cys Ala Leu Ser Asn Gln Leu Lys Ala Arg			
35	40	45	
Leu Gly Thr Asn Arg Gln Lys Lys Glu Asp Ser Leu Ser His Leu Ser			
50	55	60	
Gly Ala Gly Cys Leu Phe Ser Leu Asp Ile Arg Leu Gln Gly Leu Trp			
65	70	75	80
Leu Leu Asp Ser Arg Thr Cys Thr Asn Gly Leu Pro Gly Pro Ser Gly			
85	90	95	
Leu Gln Pro Pro Thr Lys Val Cys Ala Val Gly Leu Pro Asp Ser Glu			
100	105	110	
Ala Ser Gly Leu Gly Leu Arg His Ala Thr Gly Phe Ser Asp Ser Pro			
115	120	125	
Ala Cys Gly Trp Pro Ile Met Gly Leu Leu His Leu Cys Asn His Lys			
130	135	140	
Gly Gln Cys Pro Leu Ile Pro Phe Phe Ser Tyr Ile Leu Leu Val Leu			
145	150	155	160
Ser Ala Trp Gly Thr Leu Thr Asn Thr Asp Met Glu His Leu Lys			
165	170	175	

&lt;210&gt; 2618

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2618

Met Gly Glu Met His Arg His Ala Cys Glu Ala Trp Gly Pro Ser Leu			
1	5	10	15
Pro Leu Pro Cys Pro Leu Ser Pro Pro Thr Pro Gly Gln Pro Gln Glu			
20	25	30	
Arg Gly Ser Val Ala Ser Leu Ala Gln Arg Arg Gly Ser Val Ala Thr			
35	40	45	
Trp Thr Pro Ala Ser Gly Thr Ala Glu Arg Pro Leu Arg Asn Ala Asp			

50                      55                      60  
 Pro Pro Ser Arg Leu Lys His Thr Leu Arg Leu Pro Leu Leu Pro Leu  
 65                      70                      75                      80  
 Glu Phe Gly Ser Ser Phe Leu Thr Gln Thr His Ser Cys Ser Gly Gly  
                     85                      90                      95  
 Gln Gly Gly Arg Asp Thr His Ala Ala Ser Leu Leu Pro Pro Arg Ala  
                     100                      105                      110  
 Gly Asp Cys Pro  
                     115

<210> 2619

<211> 614

<212> PRT

<213> Homo sapiens

<400> 2619

Met Met Arg Gln Ala Thr Met Asp Phe Ser Thr Pro Ser Val Phe Asp  
 1                      5                      10                      15  
 Gln Gln Arg Gly Asp Ser Ser Glu Glu Val Asp Leu Thr Met Val Tyr  
                     20                      25                      30  
 Gln Ala Ala Ser Asn Gly Asp Val Asn Ala Leu Thr Ala Val Ile Arg  
                     35                      40                      45  
 Glu Asp Pro Ser Ile Leu Glu Cys Cys Asp Ser Glu Gly Cys Thr Pro  
                     50                      55                      60  
 Leu Met His Ala Val Ser Gly Arg Gln Ala Asp Thr Val Lys Leu Leu  
                     65                      70                      75                      80  
 Leu Lys Met Gly Ala Asn Ile Asn Met Gln Asp Ala Tyr Gly Arg Thr  
                     85                      90                      95  
 Ser Leu Cys Leu Ala Thr Tyr Leu Gly Trp Leu Glu Gly Cys Val Ser  
                     100                      105                      110  
 Leu Leu Arg Asn Gly Ala Lys His Asn Ile Pro Asp Lys Asn Gly Arg  
                     115                      120                      125  
 Leu Pro Leu His Ala Ala Thr Ala Glu Pro Asp Met Arg Leu Leu Thr  
                     130                      135                      140  
 Val Leu Leu Gln Gln Ser Asn Ile Ser Glu Ile Asn His Gln Asp Asn

145	150	155	160
Glu Gly Met Thr Pro Leu His Trp Ala Ala Phe His Asn Gln Pro Gln			
	165	170	175
His Thr Gln Met Leu Leu Lys Lys Gly Ala Asp Pro Thr Leu Val Asp			
	180	185	190
Lys Asp Phe Lys Thr Ala Leu His Trp Ala Val Gln Ser Gly Asn Arg			
	195	200	205
Ile Leu Cys Ser Ile Ile Leu Ser His His Gln Gly Pro Ser Ile Ile			
	210	215	220
Asn Tyr Asp Asp Glu Ser Gly Lys Thr Cys Val His Ile Ala Ala Ala			
225	230	235	240
Ala Gly Phe Ser Asp Ile Ile His Glu Leu Ala Arg Val Pro Glu Cys			
	245	250	255
Asn Leu Gln Ala Leu Asp Val Asp Asp Arg Thr Pro Leu His Trp Ala			
	260	265	270
Ala Ala Ala Gly Lys Ala Glu Cys Val Gln Ser Leu Leu Glu Leu Gly			
	275	280	285
Met Asp Ser Asn Leu Arg Asp Ile Asn Glu Ser Thr Pro Leu Ala Tyr			
	290	295	300
Ala Leu Tyr Cys Gly His Thr Ala Cys Val Lys Leu Leu Ser Gln Glu			
305	310	315	320
Ser Arg Thr Glu Pro Thr Arg Pro Pro Pro Ser Gln Ser Ser Arg Pro			
	325	330	335
Gln Lys Lys Glu Arg Arg Phe Asn Val Leu Asn Gln Ile Phe Cys Lys			
	340	345	350
Asn Lys Lys Glu Glu Gln Arg Ala His Gln Lys Asp Pro Ser Arg Asp			
	355	360	365
Arg Tyr Arg Glu Glu Asp Thr Ser Glu Val Asn Asp Ile Ile Thr Thr			
	370	375	380
Phe Asp Ser Ile Val Gly Thr Asn Cys Gln Glu Gln Pro Gly Asp Gln			
385	390	395	400
Val Ala Met Val Glu Phe Lys Lys Lys Thr Ser Asp Asn Ser Lys Tyr			
	405	410	415
Leu Leu Pro Glu Lys Lys Pro Leu Ala Arg Lys Gly Leu Pro Pro Ile			
	420	425	430

Arg	Thr	Gln	Ser	Leu	Pro	Pro	Ile	Thr	Leu	Gly	Asn	Asn	Phe	Leu	Thr
435				440				445							
Ala	Ser	His	Arg	Ala	Thr	Ser	His	Ala	Gly	Leu	Ser	Ser	Ala	Pro	His
450				455				460							
His	Met	Ala	Gln	Arg	Ser	Gln	Lys	Ser	Arg	Ser	Glu	Gln	Asp	Leu	Leu
465				470				475				480			
Asn	Asn	Arg	Thr	Gly	Cys	Gln	Met	Leu	Leu	Asp	Asn	Pro	Trp	Lys	Ser
485				490				495							
Asp	Ser	Asn	Gln	Val	Phe	Ser	Tyr	Lys	Val	Trp	Thr	Val	Ser	Ser	Ser
500				505				510							
Asp	Lys	Leu	Leu	Asp	Arg	Leu	Leu	Ser	Val	Arg	Pro	Gly	His	Gln	Glu
515				520				525							
Val	Ser	Val	Pro	Pro	His	Leu	Arg	His	Leu	His	Asn	Pro	Ser	Ser	Gly
530				535				540							
Gln	Asn	Phe	Gln	His	Leu	Ser	Pro	Asn	Arg	His	Lys	Ile	Arg	Asp	Leu
545				550				555				560			
Pro	Phe	Thr	Arg	Asn	Asn	Leu	Ala	Pro	Leu	Pro	Asp	Gln	Lys	Phe	Leu
565				570				575							
Ser	Gly	Glu	Pro	Leu	Arg	Thr	Asn	Arg	Val	Leu	Pro	Ala	Ile	Pro	Ser
580				585				590							
Gln	Arg	Arg	His	Ser	Thr	Ala	Ala	Glu	Glu	Ser	Glu	His	Ser	Ala	Asn
595				600				605							
Pro	Thr	Ser	Asp	Glu	Asn										
610															

<210> 2620

&lt;211&gt; 126

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2620

Met Arg Tyr His Leu Thr Pro Val Arg Met Ala Ile Ile Lys Lys Ser  
1 5 10 15  
Gly Asn Asn Arg Cys Trp Arg Gly Cys Gly Glu Ile Gly Thr Leu Leu  
20 25 30

&lt;211&gt; 129

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2621

Met	Leu	Trp	Tyr	Gly	Leu	Leu	Gly	Tyr	Leu	Arg	Leu	Pro	Cys	Lys	Gln
1				5					10					15	
Leu	Trp	Pro	Asp	Trp	Ile	Pro	Gly	Arg	Gly	Gln	Gln	Thr	Lys	Glu	Cys
			20					25					30		
Ser	Val	Gly	Ser	Ala	Ser	Ser	Asp	Leu	Gln	Asp	His	Pro	Ala	Glu	Ile
		35					40					45			
Arg	Ser	Asn	Ser	Ser	Pro	Arg	Ala	Lys	Val	Ser	Tyr	Gly	Arg	Lys	Leu
	50					55				60					
Ser	Leu	Trp	Lys	Trp	Pro	Ser	Met	Ala	Thr	Leu	Tyr	Tyr	Arg	Cys	Ser
65					70					75				80	
Cys	Thr	Lys	Pro	Ser	Gly	Tyr	His	Met	Ser	Trp	Val	Ala	Ala	Pro	Pro
			85						90					95	
Leu	Cys	Leu	Ser	Ser	Gly	Cys	Cys	Ile	Ser	Glu	Thr	Cys	Arg	Pro	Ala
			100					105					110		
Ile	Thr	Gln	Cys	Ser	Pro	Thr	Arg	Met	Glu	Asp	Leu	Cys	Phe	Trp	Pro
	115						120					125			

Asn

&lt;210&gt; 2622

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2622

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Met Lys Ile Pro Ile Val Gly Gln His Pro Glu Ala Glu Ala Trp Ala
 1             5             10             15
Val Cys Phe Gln Glu Glu Glu Gln Glu Trp Pro Gln Pro Cys Thr Pro
      20             25             30
Arg Cys Thr Pro Gly Ala Ala Trp Pro Gln Leu Trp Ser Ala Gly Leu
      35             40             45
Leu Pro Gly Ala Pro Pro Pro Val Leu Gly Cys Gly Cys Gly Cys Leu
      50             55             60
Trp Phe Val Phe Leu Gly Asn Leu Gly Gln Val Gly Val Arg Ala Gly
 65             70             75             80
Leu Ala Leu Asp Ile Cys Thr Ser His Ser Ser Leu Trp Ala Arg Ala
      85             90             95
His Pro Leu Trp Ala Gly Asp Gln Gly Asp Gln Val Pro Arg Val Pro
      100            105            110
Ser Ser Ala Pro Gly Ala Phe Trp Val
      115            120

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&lt;210&gt; 2623

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2623

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Met Val Trp Asp Val Gly Thr Gly Ala Ala Met Leu Thr Leu Gly Pro
 1             5             10             15

```

Glu Val His Pro Asp Thr Ile Tyr Ser Val Asp Trp Ser Arg Asp Gly  
                   20                                  25                                  30  
 Gly Leu Ile Cys Thr Ser Cys Arg Asp Lys Arg Val Arg Ile Ile Glu  
                   35                                  40                                  45  
 Pro Arg Lys Gly Thr Val Val Ala Glu Lys Asp Arg Pro His Glu Gly  
                   50                                  55                                  60  
 Thr Arg Pro Val Arg Ala Val Phe Val Ser Glu Gly Lys Ile Leu Thr  
                   65                                  70                                  75                                  80  
 Thr Gly Phe Ser Arg Met Ser Glu Arg Gln Val Ala Leu Trp Asp Thr  
                                   85                                  90                                  95  
 Val Ser Ala Gly Ala Gly Ser Arg Gly Pro Pro Gly Trp Glu Pro Arg  
                                   100                                  105                                  110  
 Leu Glu Val Ser Ser Leu Leu Cys His Ser Pro Gly Arg Met Ala Met  
                                   115                                  120                                  125  
 Gly Leu Ser Leu Pro Arg Arg Glu Met Val Val Pro Thr Gly Trp Ser  
                                   130                                  135                                  140  
 Gly Gly Pro Ser Gln Val Thr Ala Gln Gly Arg Pro Pro Ser Gln Gly  
                                   145                                  150                                  155                                  160  
 Leu Gly Cys Tyr Leu Ser Pro Val Ser Thr Glu Ala Pro Gly Gly Ala  
                                   165                                  170                                  175  
 Ala Val Pro Ala Gly Ala Gly His Gln Gln Arg Cys Pro Ala Ala Leu  
                                   180                                  185                                  190  
 Leu

<210> 2624

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2624

Met Leu His Cys Phe Leu Trp Pro Ser Ser Cys Leu Gly Pro Asp Val  
           1                                  5                                  10                                  15  
 His Pro Gly Trp Trp Leu Gln Val Gly His Pro Val Leu Leu Cys Ile  
                                   20                                  25                                  30

Ser Ile Gln Ser Pro Ile Ser Thr Gln Asn Ser Ser Val Pro Gln Arg  
           35                          40                          45  
 Ser Ser Leu Glu Thr Gly Arg Leu Thr Ser Ser Pro Thr Ala Glu Pro  
           50                          55                          60  
 Pro Glu Ala Thr Trp Gln Asn Ala Ile Gln Asp Cys Thr Trp His Ser  
           65                          70                          75                          80  
 Ala Ala Val Ser Gln Trp Asp Pro Ser Ile Gln Asn Gly Ser Ser Val  
                           85                          90                          95  
 Phe Leu Leu Leu Ser  
                           100

<210> 2625

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2625

Met Arg Ser Ala Ala Phe Thr Ile Pro Ser Leu Lys Gln Arg Ser Pro  
           1                          5                          10                          15  
 Arg Cys Ser Thr Gly Arg Ala Glu Leu Gly Lys Gly Glu Pro Ser Pro  
                           20                          25                          30  
 Cys Thr Gly Arg Pro Glu Gln Arg Gly Arg Arg Lys Ser Ser Leu Ala  
           35                          40                          45  
 Pro Pro Ala Pro Thr Pro Asp Ala Gly Pro Gln Thr Ser Lys Asp Leu  
           50                          55                          60  
 Glu Pro Pro Pro His Gly Cys Gln Glu Ala Asp Arg Gly Gly Ser Trp  
           65                          70                          75                          80  
 Gly Ala Thr Thr Ser Arg Pro Phe Arg Gln Asn Leu Ser Asp Leu Gly  
                           85                          90                          95  
 Arg His Ser Val Leu Pro Leu Lys Arg Asn Leu Cys Pro Gly Gly Ser  
                           100                          105                          110  
 Ser Leu Gly Ala Pro Pro Leu Arg Thr Pro Gln Arg Arg Val Thr Leu  
           115                          120                          125  
 Ala Ala Gln Arg Trp Leu Ser Arg Pro Gln Arg Arg Ala Val Gly Leu



130                      135                      140  
 Gly Glu Leu Asp Gln Gly Ala Gln Leu Ala Ala Leu Gly Leu Arg Trp  
 145                      150                      155                      160  
 Gly Val Asp Ser Leu Gly Gly Cys Pro Arg Ala Ser Gln Pro Ala Gly  
                          165                      170                      175  
 His Ser Gly Leu His His Thr Leu Thr Cys Leu Arg Arg His Leu Ala  
                          180                      185                      190  
 Leu Gln Ala Gly Ala Ser Gly His Ala Gly Gln Leu Pro Gln Arg Ala  
                          195                      200                      205  
 Ser Ala Ala Trp Glu Gln Gln Gly Gln Ser Tyr Thr Ala Leu His Leu  
                          210                      215                      220  
 Ala Ala Met Tyr Leu Gly Asp Gly Glu Ala Ala Ser Gly Asn Ile Gly  
 225                      230                      235                      240  
 Arg Arg Cys

<210> 2626

<211> 342

<212> PRT

<213> Homo sapiens

<400> 2626

Met Leu Gln Asp Pro Arg Ser Gln Leu Arg Gln Phe Ser His Ile Lys  
   1                      5                      10                      15  
 Met Asp Ile Thr Leu Thr Lys Pro Asn Phe Ala Lys His Ile Val Trp  
                          20                      25                      30  
 Ala Pro Glu Asp Leu Leu Pro Val Pro Leu Pro Lys Pro Asp Pro Val  
                          35                      40                      45  
 Ser Ser Ile Asn Leu Pro Leu Pro Pro Leu Ile Ala Asp Gln Arg Leu  
                          50                      55                      60  
 Asn Arg Leu Trp Asn Thr Lys Ser Asp Leu His Gln Asn Thr Val Ser  
   65                      70                      75                      80  
 Ile Asp Pro Lys Leu Ala Ala Lys Ala Lys Ile Asn Thr Thr Asn Arg  
                          85                      90                      95

Glu Gly Tyr Leu Glu Gln Phe Gly Asp Ser His Gly Ser Gly Ala Lys  
                   100                  105                  110  
 Leu Gly Asp Pro Arg Leu Gln Lys Asn Phe Asp Pro Arg Leu His Arg  
                   115                  120                  125  
 Leu Pro Asn Thr Glu Ser His Gln Val Val Met Lys Asp Ser His Ala  
                   130                  135                  140  
 Ser Lys Gly Ala Pro His Leu Pro Arg Ser Asn Pro Gly Ser Ser Gln  
 145                  150                  155                  160  
 Pro Ser Gly Ala Gly Thr Ser Asn Ser Gly Ser Gly Ala Leu Pro Pro  
                   165                  170                  175  
 Tyr Ala Pro Lys Leu Ser Ser Ser Ala Gly Leu Pro Leu Gly Thr Ser  
                   180                  185                  190  
 Thr Ser Val Leu Ser Gly Ile Ser Leu Tyr Asp Pro Arg Asp His Gly  
                   195                  200                  205  
 Ser Ser Ser Thr Ser Glu Leu Ala Thr Ala Ser Ser Gly Glu Asn Ser  
                   210                  215                  220  
 Lys Asn Gln Lys Lys Ser Gly Gly Leu Lys Ser Ser Asp Lys Thr Glu  
 225                  230                  235                  240  
 Pro Ser Pro Gly Glu Ala Ile Leu Pro Gln Lys Pro Ser Pro Asn Val  
                   245                  250                  255  
 Gly Val Thr Leu Glu Gly Pro Ala Asp Pro Gln Ala Asp Val Pro Arg  
                   260                  265                  270  
 Ser Ser Gly Lys Val Gln Val Pro Ala Val His Ser Leu Pro Val Gln  
                   275                  280                  285  
 Ala Leu Thr Gly Leu Ile Arg Pro Gln Tyr Ser Asp Pro Arg Gln Ala  
                   290                  295                  300  
 Arg Gln Pro Gly Gln Gly Ser Pro Thr Pro Asp Asn Asp Pro Gly Arg  
 305                  310                  315                  320  
 Glu Thr Asp Asp Lys Ser Leu Lys Glu Val Phe Lys Thr Phe Asp Pro  
                   325                  330                  335  
 Thr Ala Ser Pro Phe Cys  
                   340

&lt;210&gt; 2627

&lt;211&gt; 152

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2627

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Met Met Asn Pro Arg Ala Lys Arg Asp Phe Tyr Leu Ala Ala Pro Asp
  1             5             10             15
Leu Leu Asp Pro Lys Ser Ala Ala Gln Asn Ser Lys Pro Arg Leu Ser
      20             25             30
Phe Ser Thr Lys Pro Thr Val Leu Ala Ser Arg Val Glu Ser Asp Thr
      35             40             45
Thr Ile Asn Val Met Lys Trp Lys Thr Val Ser Thr Ile Phe Leu Val
      50             55             60
Val Val Leu Tyr Leu Ile Ile Gly Ala Thr Val Phe Lys Ala Leu Glu
      65             70             75             80
Gln Pro His Glu Ile Ser Gln Arg Thr Thr Ile Val Ile Gln Lys Gln
      85             90             95
Thr Phe Ile Ser Gln His Ser Cys Val Asn Ser Thr Glu Leu Asp Glu
      100            105            110
Leu Ile Gln Asp Leu Glu Thr Ser His His Ala Gln Lys Ala Ala Lys
      115            120            125
Tyr Ser Val Ser Ser Met Pro Tyr Trp Glu Phe Pro Ser Leu Val Phe
      130            135            140
Ser Trp Leu Glu Leu Glu Ile Ser
145             150

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&lt;210&gt; 2628

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2628

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Met Arg Ser Lys Lys Pro Lys Lys His Pro Lys Val Ala Val Lys Ala
  1             5             10             15
Lys Pro Ser Pro Arg Leu Thr Ile Phe Asp Glu Glu Val Asp Pro Asp
      20             25             30

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Glu	Gly	Leu	Phe	Gly	Pro	Gly	Arg	Lys	Leu	Ser	Pro	Gln	Asp	Pro	Ser
35				40				45							
Glu	Asp	Val	Ser	Ser	Met	Asp	Pro	Leu	Lys	Leu	Phe	Asp	Asp	Pro	Asp
50				55				60							
Leu	Gly	Gly	Ala	Ile	Pro	Leu	Gly	Asp	Ser	Leu	Leu	Leu	Pro	Ala	Ala
65				70				75				80			
Cys	Glu	Ser	Gly	Gly	Pro	Thr	Pro	Ser	Leu	Ser	His	Arg	Asp	Ala	Ser
85				90				95							
Lys	Glu	Leu	Phe	Arg	Tyr	His	Leu	Ser	Pro	Ala	Ala	Leu	Gly	Gln	Leu
100				105				110							

&lt;210&gt; 2629

&lt;211&gt; 207

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2629

Met	Ala	Lys	Arg	Ser	Lys	Met	Leu	Ser	Leu	Asn	Asn	Tyr	Ser	Val	Pro
1				5					10					15	
Gln	Ser	Thr	Arg	Glu	Glu	Lys	Arg	Glu	Asn	Gly	Leu	Glu	Ala	Arg	Ser
			20					25					30		
Pro	Ala	Ile	Asn	Leu	Met	Gly	Phe	Asn	Val	Glu	Glu	Met	Cys	Glu	Ala
			35				40					45			
His	Ala	Trp	Ile	Gln	Arg	Ile	Leu	Ser	Leu	Gln	Asn	His	His	Ile	Ile
	50					55				60					
Glu	Asn	Asn	His	Ile	Leu	Tyr	Leu	Gly	Arg	Lys	Glu	His	Asp	Ile	Leu
65				70					75					80	
Ser	Gln	Leu	Gln	Lys	Thr	Ser	Ser	Val	Ser	Ile	Thr	Glu	Ile	Ile	Ser
				85				90					95		
Pro	Gly	Arg	Thr	Glu	Leu	Glu	Ile	Glu	Gly	Ala	Arg	Ala	Asp	Leu	Ile
			100					105				110			
Glu	Val	Val	Met	Asn	Ile	Glu	Asp	Met	Leu	Cys	Lys	Val	Gln	Glu	Glu
			115					120				125			
Met	Ala	Arg	Lys	Lys	Glu	Arg	Gly	Leu	Trp	Arg	Ser	Leu	Gly	Gln	Trp
130						135					140				

Thr Ile Gln Gln Gln Lys Thr Gln Asp Glu Met Lys Glu Asn Ile Ile  
 145                      150                      155                      160  
 Phe Leu Lys Cys Pro Val Pro Pro Thr Gln Glu Leu Leu Asp Gln Lys  
                     165                      170                      175  
 Lys Gln Phe Glu Lys Cys Gly Leu Gln Val Leu Lys Val Tyr Leu Thr  
                     180                      185                      190  
 Lys Gly Lys Ile Trp Leu Ile Leu Leu Leu Ile Asn Leu Phe Leu  
                     195                      200                      205

<210> 2630

<211> 452

<212> PRT

<213> Homo sapiens

<400> 2630

Met Ser Asp Pro His Ser Ser Pro Leu Leu Pro Glu Pro Leu Ser Ser  
 1                      5                      10                      15  
 Arg Tyr Lys Leu Tyr Glu Ala Glu Phe Thr Ser Pro Ser Trp Pro Ser  
                     20                      25                      30  
 Thr Ser Pro Asp Thr His Pro Ala Leu Pro Leu Leu Glu Met Pro Glu  
                     35                      40                      45  
 Glu Lys Asp Leu Arg Ser Ser Asn Glu Asp Ser His Ile Val Lys Ile  
                     50                      55                      60  
 Glu Lys Leu Asn Glu Arg Ser Lys Arg Lys Asp Asp Gly Val Ala His  
 65                      70                      75                      80  
 Arg Asp Ser Ala Gly Gln Arg Cys Ile Cys Leu Ser Lys Ala Val Gly  
                     85                      90                      95  
 Tyr Leu Thr Gly Asp Met Lys Glu Tyr Arg Ile Trp Leu Lys Asp Lys  
                     100                      105                      110  
 His Leu Ala Leu Gln Phe Ile Asp Trp Val Leu Arg Gly Thr Ala Gln  
                     115                      120                      125  
 Val Met Phe Val Asn Asn Pro Leu Ser Gly Leu Ile Ile Phe Ile Gly  
                     130                      135                      140  
 Leu Leu Ile Gln Asn Pro Trp Trp Thr Ile Thr Gly Gly Leu Gly Thr  
 145                      150                      155                      160

Val Val Ser Thr Leu Thr Ala Leu Ala Leu Gly Gln Asp Arg Ser Ala			
165	170	175	
Ile Ala Ser Gly Leu His Gly Tyr Asn Gly Met Leu Val Gly Leu Leu			
180	185	190	
Met Ala Val Phe Ser Glu Lys Leu Asp Tyr Tyr Trp Trp Leu Leu Phe			
195	200	205	
Pro Val Thr Phe Thr Ala Met Ser Cys Pro Val Leu Ser Ser Ala Leu			
210	215	220	
Asn Ser Ile Phe Ser Lys Trp Asp Leu Pro Val Phe Thr Leu Pro Phe			
225	230	235	240
Asn Ile Ala Val Thr Leu Tyr Leu Ala Ala Thr Gly His Tyr Asn Leu			
245	250	255	
Phe Phe Pro Thr Thr Leu Val Glu Pro Val Ser Ser Val Pro Asn Ile			
260	265	270	
Thr Trp Thr Glu Met Glu Met Pro Leu Leu Leu Gln Ala Ile Pro Val			
275	280	285	
Gly Val Gly Gln Val Tyr Gly Cys Asp Asn Pro Trp Thr Gly Gly Val			
290	295	300	
Phe Leu Val Ala Leu Phe Ile Ser Ser Pro Leu Ile Cys Leu His Ala			
305	310	315	320
Ala Ile Gly Ser Ile Val Gly Leu Leu Ala Ala Leu Ser Val Ala Thr			
325	330	335	
Pro Phe Glu Thr Ile Tyr Thr Gly Leu Trp Ser Tyr Asn Cys Val Leu			
340	345	350	
Ser Cys Ile Ala Ile Gly Gly Met Phe Tyr Ala Leu Thr Trp Gln Thr			
355	360	365	
His Leu Leu Ala Leu Ile Cys Ala Leu Phe Cys Ala Tyr Met Glu Ala			
370	375	380	
Ala Ile Ser Asn Ile Met Ser Val Val Gly Val Pro Pro Gly Thr Trp			
385	390	395	400
Ala Phe Cys Leu Ala Thr Ile Ile Phe Leu Leu Leu Thr Thr Asn Asn			
405	410	415	
Pro Ala Ile Phe Arg Leu Pro Leu Ser Lys Val Thr Tyr Pro Glu Ala			
420	425	430	
Asn Arg Ile Tyr Tyr Leu Thr Val Lys Ser Gly Glu Glu Glu Lys Ala			
435	440	445	

Pro Ser Gly Glu

450

&lt;210&gt; 2631

&lt;211&gt; 312

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2631

Met	Ser	His	Cys	Ala	Gln	Pro	Lys	Thr	Val	Ile	Phe	Phe	Lys	Val	Leu
1				5					10					15	
Leu	Thr	Val	Gln	Arg	Lys	Leu	Phe	Tyr	Cys	Leu	Gln	Glu	Asn	Pro	Glu
			20					25					30		
Val	Trp	Phe	Ile	Arg	Pro	Val	Ser	Pro	Ser	Leu	Leu	Lys	Ile	Leu	Ala
		35					40					45			
Leu	Glu	Ala	Thr	Tyr	Leu	Leu	Pro	Leu	Arg	Leu	Ala	Leu	Leu	Asp	Glu
	50					55					60				
Met	Met	Ser	Asp	Leu	Thr	Thr	Leu	Val	Asp	Gly	Tyr	Leu	Asn	Thr	Tyr
65					70					75				80	
Arg	Glu	Gly	Ser	Ala	Asp	Arg	Leu	Gly	Gly	Thr	Glu	Pro	Thr	Cys	Met
			85						90					95	
Glu	Leu	Pro	Glu	Glu	Leu	Leu	Gln	Leu	Lys	Asp	Phe	Gln	Lys	Gln	Arg
		100						105					110		
Arg	Glu	Lys	Ala	Ala	Arg	Glu	Tyr	Arg	Val	Asn	Ala	Gln	Gly	Leu	Leu
		115					120						125		
Ile	Arg	Thr	Val	Leu	Gln	Pro	Lys	Lys	Leu	Val	Thr	Glu	Thr	Ala	Gly
	130					135					140				
Lys	Glu	Glu	Lys	Val	Lys	Gly	Phe	Leu	Phe	Gly	Lys	Asn	Phe	Arg	Ile
145				150					155					160	
Asp	Lys	Ala	Pro	Ser	Phe	Thr	Ser	Gln	Asp	Phe	His	Gly	Asp	Val	Asn
		165						170					175		
Leu	Leu	Lys	Glu	Glu	Ser	Leu	Asn	Lys	Gln	Ala	Thr	Asn	Pro	Gln	His
		180						185					190		
Leu	Pro	Pro	Thr	Glu	Glu	Gly	Glu	Thr	Ser	Glu	Asp	Ser	Ser	Asn	Lys
	195						200						205		

Leu Ile Cys Thr Lys Ser Lys Gly Ser Glu Asp Gln Arg Ile Thr Gln  
 210 215 220  
 Lys Glu His Phe Met Thr Pro Lys His Glu Phe Gln Ala Ser Leu Ser  
 225 230 235 240  
 Leu Lys Glu Glu Thr Glu Gln Leu Leu Met Val Glu Asn Lys Glu Asp  
 245 250 255  
 Leu Lys Cys Thr Lys Gln Ala Val Ser Met Ser Ser Phe Pro Gln Glu  
 260 265 270  
 Thr Arg Val Ser Pro Ser Asp Thr Phe Tyr Pro Ile Arg Lys Ala Val  
 275 280 285  
 Val Ser Thr Leu Pro Pro Cys Pro Ala Leu Glu Lys Ile Asp Ser Trp  
 290 295 300  
 Ile Ser Pro Phe Leu Asn Leu Pro  
 305 310

<210> 2632

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2632

Met Ala Ala Leu Ser Ser Arg Cys Pro Arg Ser Ala Ala Gly Pro Ala  
 1 5 10 15  
 Tyr Leu Gln Glu Ala Ala Arg Ser Ala His Trp Ala Ser Pro Pro Leu  
 20 25 30  
 Val Pro Leu Arg Thr Phe Gln Ser Ser Leu Phe Ser Ser Gly Ser Ser  
 35 40 45  
 His Ser Arg Glu Glu Glu Glu Glu Gly Val Ser Leu Leu Arg Thr Ala  
 50 55 60  
 Leu Val Gly Gln Gly Pro Val Pro Leu Phe Leu Gly Ser Leu Phe Cys  
 65 70 75 80  
 Ala Gly Cys Arg Gln Gly Pro Ser Val Trp Ser Cys Gly Glu Pro Val  
 85 90 95  
 Pro Arg Arg Ile Trp Val Thr Ala Ser Val Thr Pro Ser Pro Arg Gln  
 100 105 110



Ala Leu His Pro Cys Ser Asp Ser Leu Asp Ile Leu Lys Ala Leu His  
 115 120 125  
 Leu Leu Pro Ala Ala Phe Ser Pro Phe Ile Trp Val Gln Val Phe Ala  
 130 135 140  
 Glu Pro Ser Asn Lys Glu Ser Arg Gly Glu Asn Asp Gly Gly Glu Glu  
 145 150 155 160  
 Arg Glu Ser Ala Asn Ile Tyr  
 165

<210> 2633

<211> 604

<212> PRT

<213> Homo sapiens

<400> 2633

Met Phe Ser Gln Ser Glu Leu Arg Thr Ile Glu Gln Ser Leu Leu Ala  
 1 5 10 15  
 Thr Arg Val Gly Ser Ile Ala Glu Leu Ser Asp Leu Val Ser Arg Ala  
 20 25 30  
 Met His His Leu Gln Pro Leu Asn Ala Lys His His Gly Asn Gly Thr  
 35 40 45  
 Pro Leu His His Lys Gln Gly Ala Leu Tyr Trp Glu Pro Glu Ala Leu  
 50 55 60  
 Tyr Thr Leu Cys Tyr Phe Met His Cys Pro Gln Met Glu Trp Glu Asn  
 65 70 75 80  
 Pro Asn Val Glu Pro Ser Lys Val Asn Leu Gln Val Glu Arg Pro Phe  
 85 90 95  
 Leu Val Leu Pro Pro Leu Met Glu Trp Ile Arg Val Ala Val Ala His  
 100 105 110  
 Ala Gly His Arg Arg Ser Phe Ser Met Asp Ser Asp Asp Val Arg Gln  
 115 120 125  
 Ala Ala Arg Leu Leu Leu Pro Gly Val Asp Cys Glu Pro Arg Gln Leu  
 130 135 140  
 Arg Ala Asp Asp Cys Phe Cys Ala Ser Arg Lys Leu Asp Ala Val Ala  
 145 150 155 160

Ile Glu Ala Lys Phe Lys Gln Asp Leu Gly Phe Arg Met Leu Asn Cys			
165	170	175	
Gly Arg Thr Asp Leu Val Lys Gln Ala Val Ser Leu Leu Gly Pro Asp			
180	185	190	
Gly Ile Asn Thr Met Ser Glu Gln Gly Met Thr Pro Leu Met Tyr Ala			
195	200	205	
Cys Val Arg Gly Asp Glu Ala Met Val Gln Met Leu Leu Asp Ala Gly			
210	215	220	
Ala Asp Leu Asn Val Glu Val Val Ser Thr Pro His Lys Tyr Pro Ser			
225	230	235	240
Val His Pro Glu Thr Arg His Trp Thr Ala Leu Thr Phe Ala Val Leu			
245	250	255	
His Gly His Ile Pro Val Val Gln Leu Leu Leu Asp Ala Gly Ala Lys			
260	265	270	
Val Glu Gly Ser Val Glu His Gly Glu Glu Asn Tyr Ser Glu Thr Pro			
275	280	285	
Leu Gln Leu Ala Ala Ala Val Gly Asn Phe Glu Leu Val Ser Leu Leu			
290	295	300	
Leu Glu Arg Gly Ala Asp Pro Leu Ile Gly Thr Met Tyr Arg Asn Gly			
305	310	315	320
Ile Ser Thr Thr Pro Gln Gly Asp Met Asn Ser Phe Ser Gln Ala Ala			
325	330	335	
Ala His Gly His Arg Asn Val Phe Arg Lys Leu Leu Ala Gln Pro Glu			
340	345	350	
Lys Glu Lys Ser Asp Ile Leu Ser Leu Glu Glu Ile Leu Ala Glu Gly			
355	360	365	
Thr Asp Leu Ala Glu Thr Ala Pro Pro Pro Leu Cys Ala Ser Arg Asn			
370	375	380	
Ser Lys Ala Lys Leu Arg Ala Leu Arg Glu Ala Met Tyr His Ser Ala			
385	390	395	400
Glu His Gly Tyr Val Asp Val Thr Ile Asp Ile Arg Ser Ile Gly Val			
405	410	415	
Pro Trp Thr Leu His Thr Trp Leu Glu Ser Leu Arg Ile Ala Phe Gln			
420	425	430	
Gln His Arg Arg Pro Leu Ile Gln Cys Leu Leu Lys Glu Phe Lys Thr			
435	440	445	

Ile Gln Glu Glu Glu Tyr Thr Glu Glu Leu Val Thr Gln Gly Leu Pro  
 450 455 460  
 Leu Met Phe Glu Ile Leu Lys Ala Ser Lys Asn Glu Val Ile Ser Gln  
 465 470 475 480  
 Gln Leu Cys Val Ile Phe Thr His Cys Tyr Gly Pro Tyr Pro Ile Pro  
 485 490 495  
 Lys Leu Thr Glu Ile Lys Arg Lys Gln Thr Ser Arg Leu Asp Pro His  
 500 505 510  
 Phe Leu Asn Asn Lys Glu Met Ser Asp Val Thr Phe Leu Val Glu Gly  
 515 520 525  
 Arg Pro Phe Tyr Ala His Lys Val Leu Leu Phe Thr Ala Ser Pro Arg  
 530 535 540  
 Phe Lys Ala Leu Leu Ser Ser Lys Pro Thr Asn Asp Gly Thr Cys Ile  
 545 550 555 560  
 Glu Ile Gly Tyr Val Lys Tyr Ser Ile Phe Gln Leu Val Met Gln Tyr  
 565 570 575  
 Leu Tyr Tyr Gly Gly Pro Glu Ser Leu Leu Ile Lys Asn Asn Glu Ile  
 580 585 590  
 Met Glu Val Arg Asp Pro Leu Trp Cys Trp Leu Ser  
 595 600

<210> 2634

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2634

Met Glu Arg Pro His Leu Tyr Lys Lys Asn His Thr Arg Lys Ile Ser  
 1 5 10 15  
 Trp Leu Trp Trp Cys Met Pro Val Val Pro Ala Thr Gln Glu Ala Ile  
 20 25 30  
 Ser Ser Gln Pro Lys Gly Arg Gly Gly Ile Gln Val Gly Leu Val Gln  
 35 40 45  
 Glu Leu Val Cys Ala Tyr Ser Ser Gly Tyr Gly Asp Glu Arg Pro Tyr  
 50 55 60

Trp His Leu Cys Leu Ser Ser Leu Ser Ala Ser Glu Cys Arg Ala Arg  
 65 70 75 80  
 Gly Leu Asn Ser Gln Ser Arg Thr Arg Ser Leu Asn Val Ser Gln Thr  
 85 90 95  
 Gln Leu Cys Ala Gln Leu His Ser Asn Val Lys Pro Ser Arg Ala Val  
 100 105 110  
 Ser Ala Ser Cys Val Cys Arg Leu Leu Pro Val Leu Gln Gln Val His  
 115 120 125  
 Gln Cys Glu Glu Gly Glu His Leu Gly Asp Tyr His Gly Ala Gly Met  
 130 135 140  
 Leu Arg Ala Leu  
 145

<210> 2635

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2635

Met Cys Leu Leu Cys Pro Phe Pro Ile Gly Lys Ala Ile Ser Val Arg  
 1 5 10 15  
 Leu Gln Tyr Phe Lys His Glu Thr Lys Gln Ser Ile Cys Leu Gly Asn  
 20 25 30  
 Gln Lys Ser Pro Leu Val Cys Pro Phe Phe Gly Glu Gln Gly Leu Asp  
 35 40 45  
 Ser Ser Ser Ser Leu Asp Leu Pro Ser Ser Pro His Pro Ala Pro Thr  
 50 55 60  
 Leu Cys Pro Cys Val Gln Pro Pro Arg Gly Pro Val Ser Val Ser Val  
 65 70 75 80  
 Pro Val Ser Val Met Gly Ser Arg Leu Ala Pro Leu Leu Ser Ala Cys  
 85 90 95  
 Leu Phe Val Ser Val Ile Leu Gly Arg Met Val Ile Leu Lys Asn Pro  
 100 105 110  
 Gly Val Leu Gly Gln Arg Gln Ala Gly Pro Ser Pro Gly Ala Pro Gly

115                      120                      125  
 Leu Pro Ser Pro Ser Val Arg Ala Pro Leu Gly His Lys Cys Ser Glu  
 130                      135                      140  
 Arg Ser Pro Ser Ala Thr  
 145                      150

<210> 2636

<211> 454

<212> PRT

<213> Homo sapiens

<400> 2636

Met Arg Thr Val Pro Gln Phe Thr Thr Phe Ala Ala Thr Arg Phe Lys  
 1                      5                      10                      15  
 Pro Ser Ser Thr Ser Ser Thr Arg Thr Ser Ser Pro Cys Ser Pro Val  
 20                      25                      30  
 Ser Ala Lys Glu Gly Pro Thr Leu Ser Val Pro Met Val Gln Gly Glu  
 35                      40                      45  
 Cys Leu Leu Lys Tyr Gln Leu Arg Pro Arg Arg Glu Trp Gln Arg Asp  
 50                      55                      60  
 Ala Ile Ile Thr Cys Asn Pro Glu Glu Phe Ile Val Glu Ala Leu Gln  
 65                      70                      75                      80  
 Leu Pro Asn Phe Gln Gln Ser Val Gln Glu Tyr Arg Arg Ser Ala Gln  
 85                      90                      95  
 Asp Gly Pro Ala Pro Ala Glu Lys Arg Ser Gln Tyr Pro Glu Ile Ile  
 100                      105                      110  
 Phe Leu Gly Thr Gly Ser Ala Ile Pro Met Lys Ile Arg Asn Val Ser  
 115                      120                      125  
 Ala Thr Leu Val Asn Ile Ser Pro Asp Thr Ser Leu Leu Leu Asp Cys  
 130                      135                      140  
 Gly Glu Gly Thr Phe Gly Gln Leu Cys Arg His Tyr Gly Asp Gln Val  
 145                      150                      155                      160  
 Asp Arg Val Leu Gly Thr Leu Ala Ala Val Phe Val Ser His Leu His  
 165                      170                      175  
 Ala Asp His His Thr Gly Leu Pro Ser Ile Leu Leu Gln Arg Glu Arg

180	185	190
Ala Leu Ala Ser Leu Gly Lys Pro Leu His Pro Leu Leu Val Val Ala		
195	200	205
Pro Asn Gln Leu Lys Ala Trp Leu Gln Gln Tyr His Asn Gln Cys Gln		
210	215	220
Glu Val Leu His His Ile Ser Met Ile Pro Ala Lys Cys Leu Gln Glu		
225	230	235
Gly Ala Glu Ile Ser Ser Pro Ala Val Glu Arg Leu Ile Ser Ser Leu		
245	250	255
Leu Arg Thr Cys Asp Leu Glu Glu Phe Gln Thr Cys Leu Val Arg His		
260	265	270
Cys Lys His Ala Phe Gly Cys Ala Leu Val His Thr Ser Gly Trp Lys		
275	280	285
Val Val Tyr Ser Gly Asp Thr Met Pro Cys Glu Ala Leu Val Arg Met		
290	295	300
Gly Lys Asp Ala Thr Leu Leu Ile His Glu Ala Thr Leu Glu Asp Gly		
305	310	315
Leu Glu Glu Glu Ala Val Glu Lys Thr His Ser Thr Thr Ser Gln Ala		
325	330	335
Ile Ser Val Gly Met Arg Met Asn Ala Glu Phe Ile Met Leu Asn His		
340	345	350
Phe Ser Gln Arg Tyr Ala Lys Val Pro Leu Phe Ser Pro Asn Phe Ser		
355	360	365
Glu Lys Val Gly Val Ala Phe Asp His Met Lys Val Cys Phe Gly Asp		
370	375	380
Phe Pro Thr Met Pro Lys Leu Ile Pro Pro Leu Lys Ala Leu Phe Ala		
385	390	395
Gly Asp Ile Glu Glu Met Glu Glu Arg Arg Glu Lys Arg Glu Leu Arg		
405	410	415
Gln Val Arg Ala Ala Leu Leu Ser Arg Glu Leu Ala Gly Gly Leu Glu		
420	425	430
Asp Gly Glu Pro Gln Gln Lys Arg Ala His Thr Glu Glu Pro Gln Ala		
435	440	445
Lys Lys Val Arg Ala Gln		
450		

&lt;210&gt; 2637

&lt;211&gt; 378

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2637

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Met Gly Asn Pro Ser Val Pro Arg Gly Gly Phe Thr Gln Tyr Cys Arg
  1              5              10              15
Gly Leu Leu Pro Trp Gly Phe Gln Asp Ala Pro Phe Tyr Leu Leu Val
      20              25              30
Leu Gly Phe Asp Lys Leu Pro Leu Trp Gly Thr Ile Leu Ile Ser Val
      35              40              45
Gly Cys Ala Val Phe Cys Ala Leu Ile Val Trp Phe Phe Val Cys Pro
      50              55              60
Arg Met Lys Arg Lys Ile Glu Arg Glu Ile Lys Cys Ser Pro Ser Glu
      65              70              75              80
Ser Pro Leu Met Glu Lys Lys Asn Ser Leu Lys Glu Asp His Glu Glu
      85              90              95
Thr Lys Leu Ser Val Gly Asp Ile Glu Asn Lys His Pro Val Ser Glu
      100             105             110
Val Gly Pro Ala Thr Val Pro Leu Gln Ala Val Val Glu Glu Arg Thr
      115             120             125
Val Ser Phe Lys Leu Gly Asp Leu Glu Glu Ala Pro Glu Arg Glu Arg
      130             135             140
Leu Pro Ser Val Asp Leu Lys Glu Glu Thr Ser Ile Asp Ser Thr Val
      145             150             155             160
Asn Gly Ala Val Gln Leu Pro Asn Gly Asn Leu Val Gln Phe Ser Gln
      165             170             175
Ala Val Ser Asn Gln Ile Asn Ser Ser Gly His Tyr Gln Tyr His Thr
      180             185             190
Val His Lys Asp Ser Gly Leu Tyr Lys Glu Leu Leu His Lys Leu His
      195             200             205
Leu Ala Lys Val Gly Asp Cys Met Gly Asp Ser Gly Asp Lys Pro Leu
      210             215             220
Arg Arg Asn Asn Ser Tyr Thr Ser Tyr Thr Met Ala Ile Cys Gly Met

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225                      230                      235                      240  
 Pro Leu Asp Ser Phe Arg Ala Lys Glu Gly Glu Gln Lys Gly Glu Glu  
                             245                      250                      255  
 Met Glu Lys Leu Thr Trp Pro Asn Ala Asp Ser Lys Lys Arg Ile Arg  
                             260                      265                      270  
 Met Asp Ser Tyr Thr Ser Tyr Cys Asn Ala Val Ser Asp Leu His Ser  
                             275                      280                      285  
 Ala Ser Glu Ile Asp Met Ser Val Lys Ala Glu Met Gly Leu Gly Asp  
                             290                      295                      300  
 Arg Lys Gly Ser Asn Gly Ser Leu Glu Glu Trp Tyr Asp Gln Asp Lys  
 305                      310                      315                      320  
 Pro Glu Val Ser Leu Leu Phe Gln Phe Leu Gln Ile Leu Thr Ala Cys  
                             325                      330                      335  
 Phe Gly Ser Phe Ala His Gly Gly Asn Asp Val Ser Asn Ala Ile Gly  
                             340                      345                      350  
 Pro Leu Val Ala Leu Tyr Leu Val Tyr Asp Thr Gly Asp Val Ser Ser  
                             355                      360                      365  
 Lys Val Ala Thr Pro Ile Trp Leu Leu Cys  
                             370                      375

<210> 2638

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2638

Met Glu Thr Ile Leu Ala Ser Phe Cys Ile Phe Ser Gly Asp Gly Ser  
   1                      5                      10                      15  
 Ser Pro Cys Trp Pro Gly Cys Ser Gln Thr Pro Asp Leu Lys Ser Ala  
                             20                      25                      30  
 Cys Leu Arg Leu Pro Arg Cys Trp Asp Tyr Arg His Glu Pro Gly Leu  
                             35                      40                      45  
 Asp Asp Leu Phe Asn Val Leu Leu Asn Leu Val Cys Trp Ser Cys Phe  
                             50                      55                      60  
 Val Thr Gln Ala Gly Val Gln Trp His Asn Leu Gly Leu Leu Gln Ala



65                      70                      75                      80  
 Leu Asn Ser Trp Ala Gln Val Ile Leu Leu Ser Gln Ser Phe Lys Val  
                          85                      90                      95  
 Leu Val Leu Gln Val  
                          100

<210> 2639

<211> 383

<212> PRT

<213> Homo sapiens

<400> 2639

Met Val Ser Ser Gly Cys Arg Met Arg Ser Leu Trp Phe Ile Ile Val  
   1                      5                      10                      15  
 Ile Ser Phe Leu Pro Asn Thr Glu Gly Phe Ser Arg Ala Ala Leu Pro  
                          20                      25                      30  
 Phe Gly Leu Val Arg Arg Glu Leu Ser Cys Glu Gly Tyr Ser Ile Asp  
                          35                      40                      45  
 Leu Arg Cys Pro Gly Ser Asp Val Ile Met Ile Glu Ser Ala Asn Tyr  
                          50                      55                      60  
 Gly Arg Thr Asp Asp Lys Ile Cys Asp Ala Asp Pro Phe Gln Met Glu  
   65                      70                      75                      80  
 Asn Thr Asp Cys Tyr Leu Pro Asp Ala Phe Lys Ile Met Thr Gln Arg  
                          85                      90                      95  
 Cys Asn Asn Arg Thr Gln Cys Ile Val Val Thr Gly Ser Asp Val Phe  
                          100                      105                      110  
 Pro Asp Pro Cys Pro Gly Thr Tyr Lys Tyr Leu Glu Val Gln Tyr Glu  
                          115                      120                      125  
 Cys Val Pro Tyr Arg His Ser Leu Asn Asn Ala Arg Asp Thr Ser Ala  
                          130                      135                      140  
 Met Asp Thr Leu Pro Leu Asn Gly Asn Phe Asn Asn Ser Tyr Ser Leu  
   145                      150                      155                      160  
 His Lys Gly Asp Tyr Asn Asp Ser Val Gln Val Val Asp Cys Gly Leu  
                          165                      170                      175  
 Ser Leu Asn Asp Thr Ala Phe Glu Lys Met Ile Ile Ser Glu Leu Val

	180		185		190
His	Asn	Asn	Leu	Arg	Gly
			Ser	Ser	Lys
			Thr	His	Asn
			Leu	Glu	Leu
			Thr		
	195		200		205
Leu	Pro	Val	Lys	Pro	Val
			Ile	Gly	Gly
			Ser	Ser	Ser
			Glu	Asp	Asp
			Ala		
	210		215		220
Ile	Val	Ala	Asp	Ala	Ser
			Ser	Ser	Leu
			Met	His	Ser
			Asp	Asn	Pro
			Gly	Leu	
	225		230		235
			240		
Glu	Leu	His	His	Lys	Glu
			Leu	Glu	Ala
			Pro	Leu	Ile
			Pro	Gln	Arg
			Thr		
			245		250
			255		
His	Ser	Leu	Leu	Tyr	Gln
			Pro	Gln	Lys
			Lys	Lys	Val
			Lys	Ser	Glu
			Gly	Thr	
			260		265
			270		
Asp	Ser	Tyr	Val	Ser	Gln
			Leu	Thr	Ala
			Glu	Ala	Glu
			Asp	His	Leu
			Gln		
			275		280
			285		
Ser	Pro	Asn	Arg	Asp	Ser
			Leu	Tyr	Thr
			Ser	Met	Pro
			Asn	Leu	Arg
			Asp		
			290		295
			300		
Ser	Pro	Tyr	Pro	Glu	Ser
			Ser	Pro	Asp
			Met	Glu	Glu
			Asp	Leu	Ser
			Pro		
			305		310
			315		320
Ser	Arg	Arg	Ser	Glu	Asn
			Glu	Asp	Ile
			Tyr	Tyr	Lys
			Ser	Met	Pro
			Asn		
			325		330
			335		
Leu	Gly	Ala	Gly	His	Gln
			Leu	Gln	Met
			Cys	Tyr	Gln
			Ile	Ser	Arg
			Gly		
			340		345
			350		
Asn	Ser	Asp	Gly	Tyr	Ile
			Ile	Pro	Ile
			Asn	Lys	Glu
			Gly	Cys	Ile
			Pro		
			355		360
			365		
Glu	Gly	Asp	Val	Arg	Glu
			Gly	Gln	Met
			Gln	Leu	Val
			Thr	Ser	Leu
			370		375
			380		

&lt;210&gt; 2640

&lt;211&gt; 162

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2640

Met	Glu	Tyr	Glu	Ser	Gln	Lys	Glu	Lys	Glu	Val	Ser	Val	Ser	Asp	Val
1					5					10					15

Asn Ser Ile Thr Ala Gln Arg Ile Asn Ser Ala Asn Phe Leu Lys Lys  
                   20                                  25                                  30  
 Val Arg Arg Leu Ile Met Lys Arg Ile Val Lys Ile Ser Lys Cys Asn  
                   35                                  40                                  45  
 Leu Ser Asp Ile Val Asn Asp Tyr Glu Glu Ile Val Ser Thr Ser Gln  
                   50                                  55                                  60  
 Leu Thr Asp Ala Val Cys Lys Phe Val Glu Pro Arg Arg Lys Leu Lys  
                   65                                  70                                  75                                  80  
 Pro Gln Arg Lys Glu Arg Lys Lys Val Thr Ala Gln Ala Ile Ser Asp  
                                   85                                  90                                  95  
 Gly Asp Ile Lys Ile Leu Val Arg Ile Val Arg Ala Tyr Asn Ile Pro  
                                   100                                  105                                  110  
 Thr Arg Lys Thr Thr Ile Asn Gly Phe Cys Cys Gln Leu Pro Tyr Ser  
                                   115                                  120                                  125  
 Met Pro Leu Thr Leu Ser Val Leu Glu Ala Glu Arg Trp Arg Lys Cys  
                   130                                  135                                  140  
 Pro Arg Lys Ala Ala Lys Gln Met Trp Asn Asp Pro Trp Ile Cys Leu  
                   145                                  150                                  155                                  160  
 Leu Val

<210> 2641

<211> 231

<212> PRT

<213> Homo sapiens

<400> 2641

Met Glu Met Leu Pro Leu His Arg Tyr Ser His Cys Thr Asp Thr Pro  
           1                                  5                                  10                                  15  
 Thr Ala Gln Arg Gly Ala His His Met Gly Met Leu Pro Leu His Arg  
                   20                                  25                                  30  
 Tyr Ser His Cys Thr Asp Thr Pro Thr Ala Gln Arg Gly Thr His Asp  
                   35                                  40                                  45  
 Met Gly Met Leu Pro Leu His Arg Cys Ser His Gly Thr Glu Arg His  
                   50                                  55                                  60

Pro Ser Tyr Gly Asp Val Pro Thr Ala Gln Ile Leu Pro Leu His Arg  
65 70 75 80  
Tyr Ser His Arg Thr Glu Arg His Pro Ser Tyr Gly Asp Ala Pro Thr  
85 90 95  
Ala Gln Met Leu Pro Arg His Arg Glu Ala Pro Ile Ile Trp Gly Cys  
100 105 110  
Ser His Cys Thr Asp Thr Pro Ile Ala Gln Ile Leu Pro Pro His Arg  
115 120 125  
Glu Ala Pro Ile Ile Trp Gly Cys Ser His Cys Thr Asp Ala Pro Thr  
130 135 140

Ala Gln Arg Gly Thr His His Met Gly Met Ile Pro Leu His Arg Tyr  
145 150 155 160  
Ser His Cys Thr Asp Ala Pro Thr Thr Gln Arg Gly Ala His His Met  
165 170 175  
Gly Met Leu Pro Leu His Arg Tyr Ser His Cys Thr Asp Ala Pro Thr  
180 185 190  
Ala Gln Arg Gly Thr His Asp Met Gly Met Leu Pro Leu His Arg Cys  
195 200 205  
Ser His His Thr Glu Arg Arg Pro Ser Tyr Gly Asp Asp Pro Thr Ala  
210 215 220  
Gln Met Leu Pro Leu His Arg  
225 230

<210> 2642

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2642

Met Ser Ser Asp Phe Gln Gly Thr Gly Ala Leu Ser Gly Met Ala Lys  
1 5 10 15  
Glu Asp Thr Ser Ile Gln Leu Gly Ala Thr Pro Gly Ser Gln Thr Leu  
20 25 30

His Cys Leu Val Pro Arg Ser Ser Ser Arg Ser Glu Val Asp Cys Ser  
           35                          40                          45  
 Leu Ile His Ser Pro Ser Leu Arg Ala Gly Arg Trp Asp Trp Gln His  
           50                          55                          60  
 Ser Lys Asp Ile Ala Pro Trp Gly Pro Pro Cys Cys Ile Phe Gln Leu  
           65                          70                          75                          80  
 Arg Gln Val Tyr Ser Pro Pro Ala Ser Val Arg Arg Gly Pro Glu Gln  
                           85                          90                          95  
 Gln Ala Trp Gln His Pro Leu Leu Leu Pro Glu Glu Val Leu Ser Ser  
                           100                          105                          110  
 Pro Gly Cys Gly His Thr Val Arg Leu Tyr Arg Pro Val Trp Ser Ser  
                           115                          120                          125  
 Cys Arg Gly Tyr Asp Leu Asp Lys Thr Glu Gln Thr Gln Glu Ala Leu  
                           130                          135                          140  
 Gln Cys Arg Ala Tyr Ser Ser Ser Ser Trp  
 145                          150

<210> 2643

<211> 347

<212> PRT

<213> Homo sapiens

<400> 2643

Met Val Ser His Pro Ser Leu Ser Met Cys Leu Ser His Tyr Leu Ser  
           1                          5                          10                          15  
 Pro Ser Leu Thr Gly Cys Val Ser Pro Tyr Pro Leu Leu Asn Ser Ser  
                           20                          25                          30  
 Leu Cys His Leu Ser Ser Tyr Thr Leu Leu His Ser Pro Pro Pro Gly  
                           35                          40                          45  
 Leu Pro Asp Ser Val Pro His Thr Ser Pro Pro Pro Tyr Asn Ala Pro  
                           50                          55                          60  
 Gln Pro Pro Ala Glu Pro Pro Ala Pro Pro Pro Gln Ala Ala Pro Ser  
                           65                          70                          75                          80  
 Ser His His His His His His His Tyr His Gln Ser Gly Thr Ala Thr

	85		90		95
Leu Pro Arg	Leu Gly Ala Gly Gly	Leu Ala Ser Ser	Ala Ala Thr Ala		
	100		105		110
Gln Arg Gly	Pro Ser Ser Ser	Ala Thr Leu Pro	Arg Pro Pro His His		
	115		120		125
Ala Pro Pro	Gly Pro Ala Ala	Gly Ala Pro Pro	Pro Gly Cys Ala Thr		
	130		135		140
Leu Pro Arg	Met Pro Pro Asp	Pro Tyr Leu Gln	Glu Thr Arg Phe Glu		
145		150		155	160
Gly Pro Leu	Pro Pro Pro Pro	Ala Ala Ala Ala	Pro Pro Pro Pro		
	165		170		175
Ala Pro Ala	Gln Thr Ala Gln	Ala Pro Gly Phe	Val Val Pro Thr His		
	180		185		190
Ala Gly Thr	Val Gly Thr Leu	Pro Leu Gly Gly	Tyr Val Ala Pro Gly		
	195		200		205
Tyr Pro Leu	Gln Leu Gln Pro	Cys Thr Ala Tyr	Val Pro Val Tyr Pro		
	210		215		220
Val Gly Thr	Pro Tyr Ala Gly	Gly Gly Thr Pro	Gly Gly Thr Gly Val Thr		
225		230		235	240
Ser Thr Leu	Pro Pro Pro Pro	Gln Gly Pro Gly	Leu Ala Leu Leu Glu		
	245		250		255
Pro Arg Arg	Pro Pro His Asp	Tyr Met Pro Ile	Ala Val Leu Thr Thr		
	260		265		270
Ile Cys Cys	Phe Trp Pro Thr	Gly Ile Ile Ala	Ile Phe Lys Ala Val		
	275		280		285
Gln Val Arg	Thr Ala Leu Ala	Arg Gly Asp Met	Val Ser Ala Glu Ile		
	290		295		300
Ala Ser Arg	Glu Ala Arg Asn	Phe Ser Phe Ile	Ser Leu Ala Val Gly		
305		310		315	320
Ile Ala Ala	Met Val Leu Cys	Thr Ile Leu Thr	Val Val Ile Ile Ile		
	325		330		335
Ala Ala Gln	His His Glu Asn	Tyr Trp Asp Pro			
	340		345		

&lt;211&gt; 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2644

Met Arg Pro Pro Leu Ser Leu Ser Ser Ala Gly Ser Ala Thr His Leu  
 1 5 10 15  
 Pro Thr Cys Leu Ile Leu Pro Gly Glu Glu Leu Ile Tyr Leu Asp Pro  
 20 25 30  
 His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp Gly Cys Phe Ile Pro  
 35 40 45  
 Asp Glu Ser Phe His Cys Gln His Pro Pro Cys Arg Met Ser Ile Ala  
 50 55 60  
 Glu Leu Asp Pro Ser Ile Ala Val Gly Phe Phe Cys Lys Thr Glu Asp  
 65 70 75 80  
 Asp Phe Asn Asp Trp Cys Gln Gln Val Lys Lys Leu Ser Leu Leu Gly  
 85 90 95  
 Gly Ala Leu Pro Met Phe Glu Leu Val Glu Leu Gln Pro Ser His Leu  
 100 105 110  
 Ala Cys Pro Asp Val Leu Asn Leu Ser Leu Asp Ser Ser Asp Val Glu  
 115 120 125  
 Arg Leu Glu Arg Phe Phe Asp Ser Glu Asp Glu Asp Phe Glu Ile Leu  
 130 135 140  
 Ser Leu  
 145

&lt;210&gt; 2645

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2645

Met Ala Met Ala Arg Gly Ser Ile Glu Leu Gly Val Glu Thr Cys Gly  
 1 5 10 15  
 Gly His Ser Ser Ser Lys Ala Glu Leu Thr Gln Ala Val Pro Ala Pro

Met Lys Ala Met Pro Trp Asn Trp Thr Cys Leu Leu Ser His Leu Leu  
1 5 10 15  
Met Val Gly Met Gly Ser Ser Thr Leu Leu Thr Arg Gln Pro Ala Pro  
20 25 30  
Leu Ser Gln Lys Gln Arg Ser Phe Val Thr Phe Arg Gly Glu Pro Ala



35	40	45
Glu Gly Phe Asn His Leu Val Val Asp Glu Arg Thr Gly His Ile Tyr		
50	55	60
Leu Gly Ala Val Asn Arg Ile Tyr Lys Leu Ser Ser Asp Leu Lys Val		
65	70	75
Leu Val Thr His Glu Thr Gly Pro Asp Glu Asp Asn Pro Lys Cys Tyr		
85	90	95
Pro Pro Arg Ile Val Gln Thr Cys Asn Glu Pro Leu Thr Thr Thr Asn		
100	105	110
Asn Val Asn Lys Met Leu Leu Ile Asp Tyr Lys Glu Asn Arg Leu Ile		
115	120	125
Ala Cys Gly Ser Leu Tyr Gln Gly Ile Cys Lys Leu Leu Arg Leu Glu		
130	135	140
Asp Leu Phe Lys Leu Gly Glu Pro Tyr His Lys Lys Glu His Tyr Leu		
145	150	155
Ser Gly Val Asn Glu Ser Gly Ser Val Phe Gly Val Ile Val Ser Tyr		
165	170	175
Ser Asn Leu Asp Asp Lys Leu Phe Ile Ala Thr Ala Val Asp Gly Lys		
180	185	190
Pro Glu Tyr Phe Pro Thr Ile Ser Ser Arg Lys Leu Thr Lys Asn Ser		
195	200	205
Glu Ala Asp Gly Met Phe Ala Tyr Val Phe His Asp Glu Phe Val Ala		
210	215	220
Ser Met Ile Lys Ile Pro Ser Asp Thr Phe Thr Ile Ile Pro Asp Phe		
225	230	235
Asp Ile Tyr Tyr Val Tyr Gly Phe Ser Ser Gly Asn Phe Val Tyr Phe		
245	250	255
Leu Thr Leu Gln Pro Glu Met Val Ser Pro Pro Gly Ser Thr Thr Lys		
260	265	270
Glu Gln Val Tyr Thr Ser Lys Leu Val Arg Leu Cys Lys Glu Asp Thr		
275	280	285
Ala Phe Asn Ser Tyr Val Glu Val Pro Ile Gly Cys Glu Arg Ser Gly		
290	295	300
Val Glu Tyr Arg Leu Leu Gln Ala Ala Tyr Leu Ser Lys Ala Gly Ala		
305	310	315
Val Leu Gly Arg Thr Leu Gly Val His Pro Asp Asp Asp Leu Leu Phe		

325 330 335  
 Thr Val Phe Ser Lys Gly Gln Lys Arg Lys Met Lys Ser Leu Asp Glu  
 340 345 350  
 Ser Ala Leu Cys Ile Phe Ile Leu Lys Gln Ile Asn Asp Arg Ile Lys  
 355 360 365  
 Glu Arg Leu Gln Ser Cys Tyr Arg Gly Glu Gly Thr Leu Asp Leu Ala  
 370 375 380  
 Trp Leu Lys Val Lys Asp Ile Pro Cys Ser Ser Ala Leu Leu Thr Ile  
 385 390 395 400  
 Asp Asp Asn Phe Cys Gly Leu Asp Met Asn Ala Pro Leu Gly Val Ser  
 405 410 415  
 Asp Met Val Arg Gly Ile Pro Val Phe Thr Glu Asp Arg Asp Arg Met  
 420 425 430  
 Thr Ser Val Ile Ala Tyr Val Tyr Lys Asn His Ser Leu Ala Phe Val  
 435 440 445  
 Gly Thr Lys Ser Gly Lys Leu Lys Lys Val Pro Gly Thr Ser Leu Cys  
 450 455 460  
 Pro Thr Leu Glu Leu Gln Thr Gly Pro Arg Ser His Arg Ala Thr Val  
 465 470 475 480  
 Thr Leu Glu Leu Leu Phe Ser Ser Cys Ser Ser Asn  
 485 490

<210> 2647

<211> 103

<212> PRT

<213> Homo sapiens

<400> 2647

Met Val His Pro Asn Val Pro Ala Ser Leu Phe Gly Phe Arg Ser Glu  
 1 5 10 15  
 Asn Asp Leu Ser Leu Ser Arg Tyr Thr Ile Val Arg Asn Ala Leu Pro  
 20 25 30  
 Asn Ala Ser Leu Leu Ser Asp Gln Arg Ile Pro Arg Leu Gly Ile Gln  
 35 40 45  
 Ile Asn Glu Asn Ser His Met Lys Gly Lys Ser Ile Ala Ile Ser Gly

50                      55                      60  
 Glu Asp Leu Ser Pro Gly Leu Phe Pro Gly Ile Ala Thr Trp Val Gly  
 65                      70                      75                      80  
 Ala His His Ser Gly Ala Gly Val Gly Arg Gln Glu Glu Glu Ala Glu  
                          85                      90                      95  
 Ile Leu Pro Ile Lys Ala Asn  
                          100

<210> 2648

<211> 100

<212> PRT

<213> Homo sapiens

<400> 2648

Met His Gln Cys Val Gln Phe Val His Cys Met Asn Thr Gln Gln Arg  
 1                      5                      10                      15  
 Arg Gln Met Gly Leu Lys Phe Ser Pro Lys Pro Arg Ala Pro Ala Glu  
                          20                      25                      30  
 Ser Ala Gln Lys Gly His Leu Phe Leu Ile Arg Leu Ser Lys Gly Lys  
                          35                      40                      45  
 Leu Phe Phe Leu Ile Leu Thr Arg Asn Gln Ser Cys Lys Asn Leu Gly  
                          50                      55                      60  
 Ser Cys Asn His Phe Lys Ile Asp Phe Ile Phe Cys Phe Leu Glu Thr  
 65                      70                      75                      80  
  
 Lys Ala Arg Ser Ile Ala Gln Ala Gly Val Trp Leu Ala Leu Gln Thr  
                          85                      90                      95  
 Ala Met Ile Leu  
                          100

<210> 2649

<211> 237

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2649

Met Asn Ile Phe Asp Arg Lys Ile Asn Phe Asp Ala Leu Leu Lys Phe  
 1 5 10 15  
 Ser His Ile Thr Pro Ser Thr Gln Gln His Leu Lys Lys Val Tyr Ala  
 20 25 30  
 Ser Phe Ala Leu Cys Met Phe Val Ala Ala Ala Gly Ala Tyr Val His  
 35 40 45  
 Met Val Thr His Phe Ile Gln Ala Gly Leu Leu Ser Ala Leu Gly Ser  
 50 55 60  
 Leu Ile Leu Met Ile Trp Leu Met Ala Thr Pro His Ser His Val Thr  
 65 70 75 80  
 Glu Gln Lys Arg Leu Gly Leu Leu Ala Gly Phe Ala Phe Leu Thr Gly  
 85 90 95  
 Val Gly Leu Gly Pro Ala Leu Glu Phe Cys Ile Ala Val Asn Pro Ser  
 100 105 110  
 Ile Leu Pro Thr Ala Phe Met Gly Thr Ala Met Ile Phe Thr Cys Phe  
 115 120 125  
 Thr Leu Ser Ala Leu Tyr Ala Arg Arg Arg Ser Tyr Leu Phe Leu Gly  
 130 135 140  
 Gly Ile Leu Met Ser Ala Leu Ser Leu Leu Leu Ser Ser Leu Gly  
 145 150 155 160  
  
 Asn Val Phe Phe Gly Ser Ile Trp Leu Phe Gln Ala Asn Leu Tyr Val  
 165 170 175  
 Gly Leu Val Val Met Cys Gly Phe Val Leu Phe Asp Thr Gln Leu Ile  
 180 185 190  
 Ile Glu Lys Ala Glu His Gly Asp Gln Asp Tyr Ile Trp His Cys Ile  
 195 200 205  
 Asp Leu Phe Leu Asp Phe Ile Thr Val Phe Arg Lys Leu Met Met Ile  
 210 215 220  
 Leu Ala Met Asn Glu Lys Asp Lys Lys Lys Glu Lys Lys  
 225 230 235

&lt;210&gt; 2650

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2650

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Met Lys Arg Met Asn Gln Asn Phe Pro His Gly Gly Ala Met Asp Thr
 1             5             10            15
His Phe Ala Asn Met Arg Ser Leu Ile Gln Ile Leu Asp Ser Glu Leu
      20             25            30
Phe Glu Leu Met His Gln Asn Gly Asp Tyr Thr His Phe Tyr Phe Cys
      35             40            45
Tyr Arg Trp Phe Leu Leu Asp Phe Lys Arg Glu Leu Val Tyr Asp Asp
      50             55            60
Val Phe Leu Val Trp Glu Thr Ile Trp Ala Ala Lys His Val Ser Ser
      65             70            75            80
Ala His Tyr Val Leu Phe Ile Ala Leu Ala Leu Val Glu Val Tyr Arg
      85             90            95
Asp Ile Ile Leu Glu Asn Asn Met Asp Phe Thr Asp Ile Ile Lys Phe
      100            105            110
Phe Asn Glu Met Ala Glu Arg His Asn Thr Lys Gln Val Leu Lys Leu
      115            120            125
Ala Arg Asp Leu Val Tyr Lys Val Gln Thr Leu Ile Glu Asn Lys
      130            135            140

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&lt;210&gt; 2651

&lt;211&gt; 170

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2651

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Met Glu Thr His Lys Glu Leu Lys Pro Leu Leu Ser Pro Ser Ser Glu
 1             5             10            15
Thr Thr Val Thr Val Glu Leu Pro Glu Ala Asp Arg Ala Gly Ala Gly
      20             25            30
Thr Gly Ala Gln Ala Gly Gln Leu Met Gly Phe Phe Lys Gly Ile Asp

```

35                      40                      45  
 Gln Asp Ile Glu Arg Ala Val Gln Ser Glu Ile Phe Leu His Glu Ser  
 50                      55                      60  
 Tyr Cys Met Asp Thr Ser His Gln Pro Leu Leu Pro Ala Pro Pro Lys  
 65                      70                      75                      80  
 Thr Pro Met Asp Gly Ala Asp Cys Gly Ile Gln Trp Trp Asn Ala Val  
 85                      90                      95  
 Phe Ile Met Leu Leu Ile Gly Ile Val Leu Pro Val Phe Tyr Leu Val  
 100                      105                      110  
 Tyr Phe Lys Ile Gln Ala Ser Gly Glu Thr Pro Asn Ser Leu Asn Thr  
 115                      120                      125  
 Thr Val Ile Pro Asn Gly Ser Met Ala Met Gly Thr Val Pro Gly Gln  
 130                      135                      140  
 Ala Pro Arg Leu Ala Val Ala Val Pro Ala Val Thr Ser Ala Asp Ser  
 145                      150                      155                      160  
 Gln Phe Ser Gln Thr Thr Gln Ala Gly Ser  
 165                      170

<210> 2652

<211> 141

<212> PRT

<213> Homo sapiens

<400> 2652

Met Ser His Ile Gln Leu Gln Val Val His Gly Pro Gly Ser Leu Trp  
 1                      5                      10                      15  
 Gln Glu Gly Ala Ser Arg Ala Val Phe Leu Ser Val Thr Leu Ser Ser  
 20                      25                      30  
 Cys Ser Lys His Met Tyr Leu Lys Gln Leu Tyr Thr Lys Leu Ile Lys  
 35                      40                      45  
 Ile Lys Asp Gly Gln Pro Val Pro Gly Asn Val Glu Glu Glu Leu Val  
 50                      55                      60  
 Ile Glu Phe Pro Trp Trp Asp Lys Arg Ile Thr His Leu Ala Phe Asn  
 65                      70                      75                      80  
 Glu Arg Phe Pro Glu Leu His Pro Phe Pro Ser Leu Thr Ala Gly Ser

				85					90					95					
Cys	Arg	Pro	Cys	Gly	Ala	His	Ser	Gly	Arg	Gly	Lys	Met	Arg	Pro	Glu				
				100					105					110					
Ala	Arg	Arg	Tyr	Ala	Leu	Gly	Ala	Met	Arg	Thr	Gln	Pro	Ser	Gln	Val				
				115					120					125					
Asn	Ala	Ala	Ser	Ala	Thr	Ala	Arg	Ala	Leu	Ile	Ile	Ile							
				130					135					140					

&lt;210&gt; 2653

&lt;211&gt; 342

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2653

Met	Leu	Gly	Lys	Gln	Gln	Gly	Glu	Glu	Asp	Val	Arg	Arg	Leu	Phe	Gln				
1				5					10					15					
Pro	Phe	Gly	His	Ile	Glu	Glu	Cys	Thr	Val	Leu	Arg	Ser	Pro	Asp	Gly				
				20					25					30					
Thr	Ser	Lys	Gly	Cys	Ala	Phe	Val	Lys	Phe	Gly	Ser	Gln	Gly	Glu	Ala				
				35					40					45					
Gln	Ala	Ala	Ile	Arg	Gly	Leu	His	Gly	Ser	Arg	Thr	Met	Ala	Gly	Ala				
				50					55					60					
Ser	Ser	Ser	Leu	Val	Val	Lys	Leu	Ala	Asp	Thr	Asp	Arg	Glu	Arg	Ala				
65				70					75					80					
Leu	Arg	Arg	Met	Gln	Gln	Met	Ala	Gly	His	Leu	Gly	Ala	Phe	His	Pro				
				85					90					95					
Ala	Pro	Leu	Pro	Leu	Gly	Ala	Cys	Gly	Ala	Tyr	Thr	Thr	Ala	Ile	Leu				
				100					105					110					
Gln	His	Gln	Ala	Ala	Leu	Leu	Ala	Ala	Ala	Gln	Gly	Pro	Gly	Leu	Gly				
				115					120					125					
Pro	Val	Ala	Ala	Val	Ala	Ala	Gln	Met	Gln	His	Val	Ala	Ala	Phe	Ser				
				130					135					140					
Leu	Val	Ala	Ala	Pro	Leu	Leu	Pro	Ala	Ala	Ala	Ala	Asn	Ser	Pro	Pro				
145									150					155					160

Gly	Ser	Gly	Pro	Gly	Thr	Leu	Pro	Gly	Leu	Pro	Ala	Pro	Ile	Gly	Val
165				170				175							
Asn	Gly	Phe	Gly	Pro	Leu	Thr	Pro	Gln	Thr	Asn	Gly	Gln	Pro	Gly	Ser
180				185				190							
Asp	Thr	Leu	Tyr	Asn	Asn	Gly	Leu	Ser	Pro	Tyr	Pro	Ala	Gln	Ser	Pro
195				200				205							
Gly	Val	Ala	Asp	Pro	Leu	Gln	Gln	Ala	Tyr	Ala	Gly	Met	His	His	Tyr
210				215				220							
Ala	Ala	Ala	Tyr	Pro	Ser	Ala	Tyr	Ala	Pro	Val	Ser	Thr	Ala	Phe	Pro
225				230				235				240			
Gln	Gln	Pro	Ser	Ala	Leu	Pro	Gln	Gln	Gln	Arg	Glu	Gly	Pro	Glu	Gly
245				250				255							
Cys	Asn	Leu	Phe	Ile	Tyr	His	Leu	Pro	Gln	Glu	Phe	Gly	Asp	Ala	Glu
260				265				270							
Leu	Ile	Gln	Thr	Phe	Leu	Pro	Phe	Gly	Ala	Val	Val	Ser	Ala	Lys	Val
275				280				285							
Phe	Val	Asp	Arg	Ala	Thr	Asn	Gln	Ser	Lys	Cys	Phe	Gly	Phe	Val	Ser
290				295				300							
Phe	Asp	Asn	Pro	Thr	Ser	Ala	Gln	Thr	Ala	Ile	Gln	Ala	Met	Asn	Gly
305				310				315				320			
Phe	Gln	Ile	Gly	Met	Lys	Arg	Leu	Lys	Val	Gln	Leu	Lys	Arg	Pro	Lys
325				330				335							
Asp	Ala	Asn	Arg	Pro	Tyr										
340															

&lt;210&gt; 2654

&lt;211&gt; 125

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2654

Met Gln Gly Ser His Leu His Gly Ser Tyr Gly Arg Pro Arg Lys Pro  
1 5 10 15  
Asp Leu Leu Pro Pro Ser Ser Cys Leu Cys Ser Phe Ser Leu Gln Ile  
20 25 30



Ser Pro Pro Arg Gln Pro Phe Arg Leu Leu Arg Gly Trp Gly Val Gly  
           35                    40                    45  
 Lys Leu Arg Gly Ser Leu Pro Arg Lys Ala Gly Ala Thr Ile Ser Pro  
       50                    55                    60  
 Ser Ser Gly Leu Gln Leu Pro Met Glu Ala Gln Gly Ala Pro Gly Leu  
   65                    70                    75                    80  
 Val Tyr Arg Thr Gln Ser Trp Ser Pro Gly Leu Leu Pro Gly Gln Thr  
                     85                    90                    95  
 Pro Ser Thr Pro Gly Ala His Val Ser Val Pro His Ala Ile Asn Asp  
           100                    105                    110  
 Pro Pro Leu Leu Phe Cys Val Ser Tyr Ser Leu Ser Val  
           115                    120                    125

<210> 2655

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2655

Met Arg Arg Gln Lys Ala Glu Ala Gly Leu Arg Leu Ile Gln Lys Val  
   1                    5                    10                    15  
 Gly Val Gly Trp Val Arg Gly Met Trp Ser Thr Lys Ala Ser His Pro  
           20                    25                    30  
 Pro Leu Thr Arg Ala Pro Ser Pro Gln Val Ser Pro Ala His Trp Ile  
           35                    40                    45  
 Arg Lys Ser Ser Val Arg Pro Glu Ala Pro Gly Thr Gly Phe Ser Gln  
       50                    55                    60  
 Phe Ser Arg Glu Gly His Leu Gln Val Thr Glu Thr Ser Ser Thr Arg  
   65                    70                    75                    80  
 Glu Asp Leu Thr Phe Glu Ser Leu Pro Gly His Gln Arg Pro Ser Gln  
           85                    90                    95  
 Pro His Gly Lys Leu Pro Arg Pro Asp Ser Gly Ile Ile Pro Pro Trp  
           100                    105                    110  
 Leu Arg His Gln Pro Gly Lys Thr  
           115                    120

<210> 2656

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2656

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Met Tyr Glu Ile Ala Ala Pro Asn Val Ala Phe Met Thr Leu Arg Ser
 1             5             10             15
Met Cys Asn Thr Ser Lys Met Val Thr Cys Ala Lys Ile Phe Phe Tyr
             20             25             30
Phe Leu Val Phe Phe Ser Leu Ser Gln Asn Val Pro Thr Ile Gly Val
             35             40             45
Ile Ala Val Val Leu Ala Thr His Leu Cys Asp Glu Val Ser Leu Ala
             50             55             60
Gly Phe Gly Tyr Asp Leu Asn Gln Pro Arg Thr Pro Leu His Tyr Phe
65             70             75             80
Asp Ser Gln Cys Met Ala Ala Met Asn Phe Gln Thr Met His Asn Val
             85             90             95
Thr Thr Glu Thr Lys Phe Leu Leu Lys Leu Val Lys Glu Gly Val Val
             100            105            110
Lys Asp Leu Ser Gly Gly Ile Asp Arg Glu Phe
             115            120

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<210> 2657

<211> 246

<212> PRT

<213> Homo sapiens

<400> 2657

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Met Trp Leu Trp Val Leu Ala Ala Gln Arg Phe Ser Ser Arg Leu Leu
 1             5             10             15
Pro Gln Ser Glu Ser Ile Ala Thr Leu Thr Ser Pro Val Ala Val Leu
             20             25             30

```

Ala Thr Leu Arg Ser Gly Leu Pro Met Arg Val Leu Asp Leu Gly Ser  
           35                          40                          45  
 Gly Asn Leu Glu Glu Val Glu Ile Ala Gly Trp Asp Ser Arg Phe Arg  
           50                          55                          60  
 Ala Gly Met Arg Gly Arg Glu Asp Ala Ser Leu Glu Ala Glu Trp Arg  
           65                          70                          75                          80  
 Ala Arg Arg Arg Arg Met Val Gln Glu Thr Ala Thr Arg Arg Pro Ala  
                           85                          90                          95  
 Arg Pro Ala Ser Tyr Arg Asp Pro Gly Ser Asn Pro Pro Pro Phe Arg  
                           100                          105                          110  
 Lys Arg Pro Gly Ser Arg Tyr Leu Ala Gly Lys Gly Arg Ser Gly Ala  
                           115                          120                          125  
 Lys Arg Ala Gly His Gly Glu Ala Ala Gly Thr Arg Gly Cys Arg Glu  
                           130                          135                          140  
 Arg Gln Trp His Gly Ala Arg Gly Trp Lys Arg Lys Gln Ala Val Trp  
                           145                          150                          155                          160  
 Pro Ser Pro Gly Ala Arg Pro Ile Gly Arg Trp Val Pro Arg Pro Gly  
                           165                          170                          175  
 Ala Ala Arg Gln Val Gln Ala Gln Gly Thr Thr Gln Pro Leu Gln His  
                           180                          185                          190  
 Pro Leu Gly Arg Ser Leu Gln Pro Ser Arg Pro Ser Leu Ser Ala Val  
                           195                          200                          205  
 Ala Lys Thr Glu Ala Val Val Pro Val Thr Gly Val Ala Cys Gly Gly  
                           210                          215                          220  
 Pro Arg Met Arg Ala Thr Asn Glu Arg Leu Ser Lys Arg Arg Tyr Phe  
                           225                          230                          235                          240  
 Ala Ser Ile Leu Val Tyr  
                           245

<210> 2658

<211> 337

<212> PRT

<213> Homo sapiens

<400> 2658

Met	Glu	Lys	Ser	Trp	Met	Leu	Trp	Asn	Phe	Val	Glu	Arg	Trp	Leu	Ile
1					5					10					15
Ala	Leu	Ala	Ser	Trp	Ser	Trp	Ala	Leu	Cys	Arg	Ile	Ser	Leu	Leu	Pro
			20					25					30		
Leu	Ile	Val	Thr	Phe	His	Leu	Tyr	Gly	Gly	Ile	Ile	Leu	Leu	Leu	Leu
		35						40					45		
Ile	Phe	Ile	Ser	Ile	Ala	Gly	Ile	Leu	Tyr	Lys	Phe	Gln	Asp	Val	Leu
	50						55					60			
Leu	Tyr	Phe	Pro	Glu	Gln	Pro	Ser	Ser	Ser	Arg	Leu	Tyr	Val	Pro	Met
65						70				75					80
Pro	Thr	Gly	Ile	Pro	His	Glu	Asn	Ile	Phe	Ile	Arg	Thr	Lys	Asp	Gly
				85					90					95	
Ile	Arg	Leu	Asn	Leu	Ile	Leu	Ile	Arg	Tyr	Thr	Gly	Asp	Asn	Ser	Pro
		100						105					110		
Tyr	Ser	Pro	Thr	Ile	Ile	Tyr	Phe	His	Gly	Asn	Ala	Gly	Asn	Ile	Gly
	115						120					125			
His	Arg	Leu	Pro	Asn	Ala	Leu	Leu	Met	Leu	Val	Asn	Leu	Lys	Val	Asn
	130					135					140				
Leu	Leu	Leu	Val	Asp	Tyr	Arg	Gly	Tyr	Gly	Lys	Ser	Glu	Gly	Glu	Ala
145				150						155				160	
Ser	Glu	Glu	Gly	Leu	Tyr	Leu	Asp	Ser	Glu	Ala	Val	Leu	Asp	Tyr	Val
		165						170					175		
Met	Thr	Arg	Pro	Asp	Leu	Asp	Lys	Thr	Lys	Ile	Phe	Leu	Phe	Gly	Arg
	180							185					190		
Ser	Leu	Gly	Gly	Ala	Val	Ala	Ile	His	Leu	Ala	Ser	Glu	Asn	Ser	His
	195					200					205				
Arg	Ile	Ser	Ala	Ile	Met	Val	Glu	Asn	Thr	Phe	Leu	Ser	Ile	Pro	His
	210				215					220					
Met	Ala	Ser	Thr	Leu	Phe	Ser	Phe	Phe	Pro	Met	Arg	Tyr	Leu	Pro	Leu
225				230						235				240	
Trp	Cys	Tyr	Lys	Asn	Lys	Phe	Leu	Ser	Tyr	Arg	Lys	Ile	Ser	Gln	Cys
		245						250					255		
Arg	Met	Pro	Ser	Leu	Phe	Ile	Ser	Gly	Leu	Ser	Asp	Gln	Leu	Ile	Pro
	260							265				270			
Pro	Val	Met	Met	Lys	Gln	Leu	Tyr	Glu	Leu	Ser	Pro	Ser	Arg	Thr	Lys
	275					280						285			

Arg Leu Ala Ile Phe Pro Asp Gly Thr His Asn Asp Thr Trp Gln Cys  
 290 295 300  
 Gln Gly Tyr Phe Thr Ala Leu Glu Gln Phe Ile Lys Glu Val Val Lys  
 305 310 315 320  
 Ser His Ser Pro Glu Glu Met Ala Lys Thr Ser Ser Asn Val Thr Ile  
 325 330 335  
 Ile

<210> 2659

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2659

Met Thr Pro Pro Ser Thr Pro Asn Pro Ala Glu Cys Gly Gly Asp Leu  
 1 5 10 15  
 Gly Arg Arg Gln Gly Leu Pro Gly Arg Ser Gly Cys Trp Gly Trp Gly  
 20 25 30  
 Thr Gly Pro Ala Gly Glu Ala Gly Arg Gly Arg Thr Gly Asp Pro Gly  
 35 40 45  
 Ser Pro Arg Tyr Asn Glu Pro Arg Gly Arg Glu Tyr Ala Ile Pro Val  
 50 55 60  
 Pro Thr Ser Glu Asp Val Gly Leu Leu Ala Pro Ala Ala Ala Ala Phe  
 65 70 75 80  
 Pro His Ile Trp Ala Gly Pro Arg Ser Met Ala Trp Gly Ala Glu Ala  
 85 90 95  
 Ser Gly Ser Gly Thr Asn Tyr His Ser Arg Cys Arg Arg Arg Arg Trp  
 100 105 110  
 Gly Val Gly Ser Arg Gly Pro Trp Ser Glu Gln Thr Phe Ser Pro Leu  
 115 120 125  
 Gly Leu Pro Pro Pro Gly Ala Gly Leu Thr Gly Lys Asp Pro Arg Gly  
 130 135 140  
 Val Gly Cys Pro  
 145

&lt;210&gt; 2660

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2660

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Met Tyr Phe Thr Glu Phe Pro Thr Ala His Val Ser Phe Leu Pro Phe
  1             5             10             15
Arg Val Asp Leu Ser Asn Val Leu Asp Leu His Ala Phe Asp Ser Leu
      20             25             30
Ser Gly Ile Ser Leu Gln Lys Lys Leu Gln His Val Pro Gly Thr Gln
      35             40             45
Pro His Leu Asp Gln Ser Ile Val Thr Ile Thr Phe Glu Val Pro Gly
      50             55             60
Asn Ala Lys Glu Glu His Leu Asn Met Phe Ile Gln Asn Leu Leu Trp
      65             70             75             80
Glu Lys Asn Val Arg Asn Lys Asp Asn His Cys Met Glu Val Ile Arg
      85             90             95
Leu Lys Gly Leu Val Ser Ile Lys Asp Lys Ser Gln Gln Val Ile Val
      100            105            110
Gln Gly Val His Glu Leu Tyr Asp Leu Glu Glu Thr Pro Val Ser Trp
      115            120            125
Lys Asp Asp Thr Glu Arg Thr Asn Arg Leu Val Leu Leu Gly Arg Asn
      130            135            140
Leu Asp Lys Asp Ile Leu Lys Gln Leu Phe Ile Ala Thr Val Thr Glu
      145            150            155            160
Thr Glu Lys Gln Trp Thr Thr His Phe Lys Glu Asp Gln Val Cys Thr
      165            170            175

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&lt;210&gt; 2661

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2661

Met Cys Gly Trp Ala Ala Tyr Leu Met Arg Glu Pro Pro Pro Lys Pro  
 1 5 10 15  
 Glu Pro Ser Ser Leu Cys Gly Gln His Pro Gly Arg Pro Gly Gly Ala  
 20 25 30  
 Ala Ser Pro Ala Pro Thr Pro Ser Ala Trp Cys Trp Pro Val Ala Pro  
 35 40 45  
 Glu Pro Leu Thr Ser Pro Val Arg Gly Leu Gly Pro Ser Pro Gly Pro  
 50 55 60  
 Trp Trp Gln Leu Pro Val Ala Gln Ala Ala Cys Pro Ala Pro Arg Val  
 65 70 75 80  
 Glu Val Glu Leu Arg Gly Leu Leu Leu Gln Gly Ala Glu Gly Gln Arg  
 85 90 95  
 Pro Gly Phe Gly Tyr Gly Gly Arg Ala Ser Asp Tyr Lys Ser Ala His  
 100 105 110  
 Lys Gly Phe Lys Gly Val Asp Ala Gln Gly Thr Leu Ser Lys Ile Phe  
 115 120 125  
 Lys Leu Gly Gly Arg Asp Ser Arg Ser Gly Ser Pro Met Ala Arg Arg  
 130 135 140

&lt;210&gt; 2662

&lt;211&gt; 907

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2662

Met Gln Pro Lys Thr Val Phe Pro Pro Leu Thr Gln Ile Lys Leu Gln  
 1 5 10 15  
 Arg Tyr Pro Glu Ser Ala Glu Glu Lys Val Lys Val Glu Pro Leu Asp  
 20 25 30  
 Ser Leu Ser Leu Phe His Leu Lys Thr Glu Ser Asn Gly Lys Ala Phe  
 35 40 45  
 Thr Asp Lys Ala Tyr Asn Ser Gln Val Gln Leu Thr Val Asn Ala Asn  
 50 55 60

Gln Lys Ala His Pro Leu Thr Gln Pro Ser Ser Pro Pro Asn Gln Cys  
 65 70 75 80  
 Ala Asn Val Met Ala Gly Asp Asp Gln Ile Arg Phe Gln Gln Val Val  
 85 90 95  
 Lys Glu Gln Leu Met His Gln Arg Leu Pro Thr Leu Pro Gly Ile Ser  
 100 105 110  
 His Glu Thr Pro Leu Pro Glu Ser Ala Leu Thr Leu Arg Asn Val Asn  
 115 120 125  
 Val Val Cys Ser Gly Gly Ile Thr Val Val Ser Thr Lys Ser Glu Glu  
 130 135 140  
 Glu Val Cys Ser Ser Ser Phe Gly Thr Ser Glu Phe Ser Thr Val Asp  
 145 150 155 160  
 Ser Ala Gln Lys Asn Phe Asn Asp Tyr Ala Met Asn Phe Phe Thr Asn  
 165 170 175  
 Pro Thr Lys Asn Leu Val Ser Ile Thr Lys Asp Ser Glu Leu Pro Thr  
 180 185 190  
 Cys Ser Cys Leu Asp Arg Val Ile Gln Lys Asp Lys Gly Pro Tyr Tyr  
 195 200 205  
 Thr His Leu Gly Ala Gly Pro Ser Val Ala Ala Val Arg Glu Ile Met  
 210 215 220  
 Glu Asn Arg Tyr Gly Gln Lys Gly Asn Ala Ile Arg Ile Glu Ile Val  
 225 230 235 240  
 Val Tyr Thr Gly Lys Glu Gly Lys Ser Ser His Gly Cys Pro Ile Ala  
 245 250 255  
 Lys Trp Val Leu Arg Arg Ser Ser Asp Glu Glu Lys Val Leu Cys Leu  
 260 265 270  
 Val Arg Gln Arg Thr Gly His His Cys Pro Thr Ala Val Met Val Val  
 275 280 285  
 Leu Ile Met Val Trp Asp Gly Ile Pro Leu Pro Met Ala Asp Arg Leu  
 290 295 300  
 Tyr Thr Glu Leu Thr Glu Asn Leu Lys Ser Tyr Asn Gly His Pro Thr  
 305 310 315 320  
 Asp Arg Arg Cys Thr Leu Asn Glu Asn Arg Thr Cys Thr Cys Gln Gly  
 325 330 335  
 Ile Asp Pro Glu Thr Cys Gly Ala Ser Phe Ser Phe Gly Cys Ser Trp  
 340 345 350



Ser Met Tyr Phe Asn Gly Cys Lys Phe Gly Arg Ser Pro Ser Pro Arg			
355	360	365	
Arg Phe Arg Ile Asp Pro Ser Ser Pro Leu His Glu Lys Asn Leu Glu			
370	375	380	
Asp Asn Leu Gln Ser Leu Ala Thr Arg Leu Ala Pro Ile Tyr Lys Gln			
385	390	395	400
Tyr Ala Pro Val Ala Tyr Gln Asn Gln Val Glu Tyr Glu Asn Val Ala			
405	410	415	
Arg Glu Cys Arg Leu Gly Ser Lys Glu Gly Arg Pro Phe Ser Gly Val			
420	425	430	
Thr Ala Cys Leu Asp Phe Cys Ala His Pro His Arg Asp Ile His Asn			
435	440	445	
Met Asn Asn Gly Ser Thr Val Val Cys Thr Leu Thr Arg Glu Asp Asn			
450	455	460	
Arg Ser Leu Gly Val Ile Pro Gln Asp Glu Gln Leu His Val Leu Pro			
465	470	475	480
Leu Tyr Lys Leu Ser Asp Thr Asp Glu Phe Gly Ser Lys Glu Gly Met			
485	490	495	
Glu Ala Lys Ile Lys Ser Gly Ala Ile Glu Val Leu Ala Pro Arg Arg			
500	505	510	
Lys Lys Arg Thr Cys Phe Thr Gln Pro Val Pro Arg Ser Gly Lys Lys			
515	520	525	
Arg Ala Ala Met Met Thr Glu Val Leu Ala His Lys Ile Arg Ala Val			
530	535	540	
Glu Lys Lys Pro Ile Pro Arg Ile Lys Arg Lys Asn Asn Ser Thr Thr			
545	550	555	560
Thr Asn Asn Ser Lys Pro Ser Ser Leu Pro Thr Leu Gly Ser Asn Thr			
565	570	575	
Glu Thr Val Gln Pro Glu Val Lys Ser Glu Thr Glu Pro His Phe Ile			
580	585	590	
Leu Lys Ser Ser Asp Asn Thr Lys Thr Tyr Ser Leu Met Pro Ser Ala			
595	600	605	
Pro His Pro Val Lys Glu Ala Ser Pro Gly Phe Ser Trp Ser Pro Lys			
610	615	620	
Thr Ala Ser Ala Thr Pro Ala Pro Pro Lys Asn Asp Ala Thr Ala Ser			
625	630	635	640

Cys Gly Phe Ser Glu Arg Ser Ser Thr Pro His Cys Thr Met Pro Ser  
                     645                    650                    655  
 Gly Arg Leu Ser Gly Ala Asn Ala Ala Ala Asp Gly Pro Gly Ile  
                     660                    665                    670  
 Ser Gln Leu Gly Glu Val Ala Pro Leu Pro Thr Leu Ser Ala Pro Val  
                     675                    680                    685  
 Met Glu Pro Leu Ile Asn Ser Glu Pro Ser Thr Gly Val Thr Glu Pro  
                     690                    695                    700  
 Leu Thr Pro His Gln Pro Asn His Gln Pro Ser Phe Leu Thr Ser Pro  
 705                    710                    715                    720  
 Gln Asp Leu Ala Ser Ser Pro Met Glu Glu Asp Glu Gln His Ser Glu  
                     725                    730                    735  
 Ala Asp Glu Pro Pro Ser Asp Glu Pro Leu Ser Asp Asp Pro Leu Ser  
                     740                    745                    750  
 Pro Ala Glu Glu Lys Leu Pro His Ile Asp Glu Tyr Trp Ser Asp Ser  
                     755                    760                    765  
 Glu His Ile Phe Leu Asp Ala Asn Ile Gly Gly Val Ala Ile Ala Pro  
                     770                    775                    780  
 Ala His Gly Ser Val Leu Ile Glu Cys Ala Arg Arg Glu Leu His Ala  
 785                    790                    795                    800  
 Thr Thr Pro Val Glu His Pro Asn Arg Asn His Pro Thr Arg Leu Ser  
                     805                    810                    815  
 Leu Val Phe Tyr Gln His Lys Asn Leu Asn Lys Pro Gln His Gly Phe  
                     820                    825                    830  
 Glu Leu Asn Lys Ile Lys Phe Glu Ala Lys Glu Ala Lys Asn Lys Lys  
                     835                    840                    845  
 Met Lys Ala Ser Glu Gln Lys Asp Gln Ala Ala Asn Glu Gly Pro Glu  
                     850                    855                    860  
 Gln Ser Ser Glu Val Asn Glu Leu Asn Gln Ile Pro Ser His Lys Ala  
 865                    870                    875                    880  
 Leu Thr Leu Thr His Asp Asn Val Val Thr Val Ser Pro Tyr Ala Leu  
                     885                    890                    895  
 Thr His Val Ala Gly Pro Tyr Asn His Trp Val  
                     900                    905

&lt;210&gt; 2663

&lt;211&gt; 339

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2663

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Met Ala His Ala Leu Arg Arg Ile Leu Tyr Ser Thr Trp Cys Pro Ala
  1              5              10              15
Asp Cys Gln Phe Ala Phe Met Ala Arg Asn Pro Arg Ser Pro Ala Ser
      20              25              30
Lys Leu Phe Cys His Leu Phe Val Gly Ser Gln Pro Gly Glu Val Gln
      35              40              45
Ile Leu His Leu Leu Leu Cys Arg Ser Phe Gln Leu Ala Tyr Leu Leu
      50              55              60
Gln His Pro Glu Glu Arg Ala Gln Pro Glu Pro Cys Pro Gly Pro Thr
      65              70              75              80
Gly Glu Val Pro Leu Lys Pro Leu Ser Ser Ser Gly Gly Leu Val Arg
              85              90              95
Glu Pro Phe Gly Arg Asp Gln Leu Ser Gln Asn Val His Ala Leu Val
      100              105              110
Ser Phe Arg Arg Leu Pro Ala Glu Gly Leu Val Gly Ser Gly Lys Glu
      115              120              125
Leu Pro Glu Ser Glu Gly Arg Ala Arg His Ala Arg Leu Gly Asn Pro
      130              135              140
Tyr Cys Ser Pro Thr Leu Val Arg Lys Lys Ala Ile Arg Ser Lys Val
      145              150              155              160
Ile Arg Ser Gly Ala Tyr Arg Gly Cys Thr Tyr Glu Thr Gln Leu Gln
              165              170              175
Leu Ser Ala Arg Glu Ala Phe Pro Ala Ala Trp Glu Ala Trp Pro Arg
              180              185              190
Gly Pro Gly Gly His Ser Cys Leu Val Glu Ser Glu Gly Ser Leu Thr
      195              200              205
Glu Asn Ile Trp Ala Phe Ala Gly Ile Ser Arg Pro Cys Ala Leu Ala
      210              215              220
Leu Leu Arg Arg Asp Val Leu Gly Ala Phe Leu Leu Trp Pro Glu Leu
      225              230              235              240

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Gly	Ala	Ser	Gly	Gln	Trp	Cys	Leu	Ser	Val	Arg	Thr	Gln	Cys	Gly	Val		
245							250							255			
Val	Pro	His	Gln	Val	Phe	Arg	Asn	His	Leu	Gly	Arg	Tyr	Cys	Leu	Glu		
260							265							270			
His	Leu	Pro	Ala	Glu	Phe	Pro	Ser	Leu	Glu	Ala	Leu	Val	Glu	Asn	His		
275							280							285			
Ala	Val	Thr	Glu	Arg	Ser	Leu	Phe	Cys	Pro	Leu	Asp	Met	Gly	Arg	Leu		
290							295							300			
Asn	Pro	Thr	Tyr	Glu	Glu	Gln	Asp	Cys	Gly	Pro	Pro	Gly	Arg	Pro	Pro		
305							310							315		320	
Arg	Thr	Leu	Arg	Pro	Leu	Ser	His	Ala	Lys	Ser	Glu	Ala	Glu	Leu	Gln		
325							330							335			
Gly	Leu	Gly															

&lt;210&gt; 2664

$\langle 211 \rangle$  112

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2664

Met	Lys	Ser	Cys	Thr	Ala	Val	Val	Arg	Arg	Ser	Trp	His	Leu	Phe	Gly
1				5				10						15	
Lys	His	Gln	Pro	Gln	Gln	Met	Gln	Leu	Leu	His	Phe	Ile	Pro	Lys	Asp
			20					25					30		
Gln	Val	Leu	Leu	Leu	Lys	Glu	Leu	Cys	Ile	Pro	Leu	Ser	Ser	Pro	Glu
		35					40					45			
Pro	His	Ser	Ser	His	Trp	Leu	Ser	Phe	Ser	Phe	Pro	Phe	Arg	Val	Thr
	50						55				60				
His	Arg	Pro	Ser	Pro	Ser	Val	Pro	Val	Arg	Leu	Cys	Cys	Glu	Arg	Asp
65					70					75				80	
Glu	Ala	Phe	Pro	Val	Lys	Ser	Phe	His	Glu	Leu	Ile	Leu	Ile	Leu	Leu
				85						90				95	
Pro	His	Phe	His	Pro	Trp	Cys	Asp	Cys	Phe	Ala	Ile	Gln	Asp	Tyr	Leu
			100					105					110		

&lt;210&gt; 2665

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2665

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Met Lys Lys Val Leu Ile Gly Val Val Val Gly Val Phe Glu Cys Pro
 1              5              10              15
Leu Pro Ser Leu Cys Pro Met Phe Ser Leu Cys Gly Gln Arg Gly Thr
              20              25              30
Gly Phe Gly Thr Val Leu Ile Thr Ala Gly Leu Pro Phe Thr Ala Gly
              35              40              45
Ser Arg Leu Trp Val Gly Val Gly Val Val Pro Leu Cys Leu Leu Leu
              50              55              60
Leu Pro Leu Leu Ala Leu Gln Thr Tyr Tyr Phe Arg Val Ser Gly Leu
              65              70              75              80
Leu His Gly Trp Gln Ser His Ala His Thr Arg Gly Glu Glu His Gly
              85              90              95
Trp Val Asn Glu Ser Arg Arg Tyr Ser Trp Asp Glu Lys Trp Val Lys
              100             105             110
Ser His Arg Thr Thr Ser Ser Tyr Cys Arg Phe Arg Leu Ile Arg Lys
              115             120             125
Trp Thr Trp Thr Arg Leu Val Leu Ser
              130             135

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&lt;210&gt; 2666

&lt;211&gt; 212

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2666

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Met Asp Gly Trp Met Asp Gly Trp Val Gly Gly Trp Gly Trp Met Asp
 1              5              10              15

```

Arg Trp Met Asp Gly Trp Thr Asp Gly Val Gly Glu Gly Arg Lys Gly  
                   20                                  25                                  30  
 Gly Arg Lys Glu Gly Ile Leu Ala Pro Ser Leu Arg Ala Leu Val Gly  
                   35                                  40                                  45  
 Arg Ala Glu Thr Gly His Ser Ala Gln Pro Gly His Pro His Glu Gly  
                   50                                  55                                  60  
 Ser Gln Val Thr Leu Val Ala Gln Ile Ala Leu Arg Thr Trp Arg Asp  
                   65                                  70                                  75                                  80  
 Arg Pro Glu Ser Gly Ser Pro Pro Leu Pro Leu Ser Ser Leu Leu Phe  
                                   85                                  90                                  95  
 Pro Gln Ala Trp Glu Gln Ser Ile Pro Gln Pro Cys His Leu Pro Tyr  
                   100                                  105                                  110  
 Ser Ser Leu Phe His Ser Phe Pro Phe Leu Ala Pro Ser Ala Leu Pro  
                   115                                  120                                  125  
 Val Phe Pro Glu Cys Leu Arg Gly Glu Arg Asp Pro His Leu Pro Lys  
                   130                                  135                                  140  
 Glu Met Ser Phe Trp Gly Thr Thr Ser His Arg Ser Pro Pro His Pro  
                   145                                  150                                  155                                  160  
 Thr Thr Pro Pro Thr Trp Pro Leu Ala Lys Ser Gln Ala Glu Leu Ala  
                   165                                  170                                  175  
 Thr Gly Lys Ala Glu Pro Gln Glu Arg His Ser Thr Ile Tyr Thr Leu  
                   180                                  185                                  190  
 Leu Tyr Ile Leu Phe Leu Leu Tyr Ile His Ser Val His Val Gly Val  
                   195                                  200                                  205  
 Asn Ala Val Lys  
                   210

<210> 2667

<211> 1084

<212> PRT

<213> Homo sapiens

<400> 2667

Met Val Ala Leu Arg Gly Leu Gly Ser Gly Leu Gln Pro Trp Cys Pro  
                   1                                  5                                  10                                  15

Leu Asp Leu Arg Leu Glu Trp Val Asp Thr Val Trp Glu Leu Asp Phe  
 20 25 30  
 Thr Glu Thr Glu Pro Leu Asp Pro Ser Ile Glu Ala Glu Ile Ile Glu  
 35 40 45  
 Thr Gly Leu Ala Ala Phe Thr Lys Leu Tyr Glu Ser Leu Leu Pro Phe  
 50 55 60  
 Ala Thr Gly Glu His Gly Ser Met Glu Ser Ile Trp Thr Phe Phe Ile  
 65 70 75 80  
 Glu Asn Asn Val Ser His Ser Thr Leu Val Ala Leu Phe Tyr His Phe  
 85 90 95  
 Val Gln Ile Val His Lys Lys Asn Val Ser Val Gln Tyr Arg Glu Tyr  
 100 105 110  
 Gly Leu His Ala Ala Gly Leu Tyr Phe Leu Leu Leu Glu Val Pro Gly  
 115 120 125  
 Ser Val Ala Asn Gln Val Phe His Pro Val Met Phe Asp Lys Cys Ile  
 130 135 140  
 Gln Thr Leu Lys Lys Ser Trp Pro Gln Glu Ser Asn Leu Asn Arg Lys  
 145 150 155 160  
 Arg Lys Lys Glu Gln Pro Lys Ser Ser Gln Ala Asn Pro Gly Arg His  
 165 170 175  
 Arg Lys Arg Gly Lys Pro Pro Arg Arg Glu Asp Ile Glu Met Asp Glu  
 180 185 190  
 Ile Ile Glu Glu Gln Glu Asp Glu Asn Ile Cys Phe Ser Ala Arg Asp  
 195 200 205  
 Leu Ser Gln Ile Arg Asn Ala Ile Phe His Leu Leu Lys Asn Phe Leu  
 210 215 220  
 Arg Leu Leu Pro Lys Phe Ser Leu Lys Glu Lys Pro Gln Cys Val Gln  
 225 230 235 240  
 Asn Cys Ile Glu Val Phe Val Ser Leu Thr Asn Phe Glu Pro Val Leu  
 245 250 255  
 His Glu Cys His Val Thr Gln Ala Arg Ala Leu Asn Gln Ala Lys Tyr  
 260 265 270  
 Ile Pro Glu Leu Ala Tyr Tyr Gly Leu Tyr Leu Leu Cys Ser Pro Ile  
 275 280 285  
 His Gly Glu Gly Asp Lys Val Ile Ser Cys Val Phe His Gln Met Leu  
 290 295 300

Ser Val Ile Leu Met Leu Glu Val Gly Glu Gly Ser His Arg Ala Pro  
 305 310 315 320  
 Leu Ala Val Thr Ser Gln Val Ile Asn Cys Arg Asn Gln Ala Val Gln  
 325 330 335  
 Phe Ile Ser Ala Leu Val Asp Glu Leu Lys Glu Ser Ile Phe Pro Val  
 340 345 350  
 Val Arg Ile Leu Leu Gln His Ile Cys Ala Lys Val Val Asp Lys Ser  
 355 360 365  
 Glu Tyr Arg Thr Phe Ala Ala Gln Ser Leu Val Gln Leu Leu Ser Lys  
 370 375 380  
 Leu Pro Cys Gly Glu Tyr Ala Met Phe Ile Ala Trp Leu Tyr Lys Tyr  
 385 390 395 400  
 Ser Arg Ser Ser Lys Ile Pro His Arg Val Phe Thr Leu Asp Val Val  
 405 410 415  
 Leu Ala Leu Leu Glu Leu Pro Glu Arg Glu Val Asp Asn Thr Leu Ser  
 420 425 430  
 Leu Glu His Gln Lys Phe Leu Lys His Lys Phe Leu Val Gln Glu Ile  
 435 440 445  
 Met Phe Asp Arg Cys Leu Asp Lys Ala Pro Thr Val Arg Ser Lys Ala  
 450 455 460  
 Leu Ser Ser Phe Ala His Cys Leu Glu Leu Thr Val Thr Ser Ala Ser  
 465 470 475 480  
 Glu Ser Ile Leu Glu Leu Leu Ile Asn Ser Pro Thr Phe Ser Val Ile  
 485 490 495  
 Glu Ser His Pro Gly Thr Leu Leu Arg Asn Ser Ser Ala Phe Ser Tyr  
 500 505 510  
 Gln Arg Gln Thr Ser Asn Arg Ser Glu Pro Ser Gly Glu Ile Asn Ile  
 515 520 525  
 Asp Ser Ser Gly Glu Thr Val Gly Ser Gly Glu Arg Cys Val Met Ala  
 530 535 540  
 Met Leu Arg Arg Arg Ile Arg Asp Glu Lys Thr Asn Val Arg Lys Ser  
 545 550 555 560  
 Ala Leu Gln Val Leu Val Ser Ile Leu Lys His Cys Asp Val Ser Gly  
 565 570 575  
 Met Lys Glu Asp Leu Trp Ile Leu Gln Asp Gln Cys Arg Asp Pro Ala  
 580 585 590



Val Ser Val Arg Lys Gln Ala Leu Gln Ser Leu Thr Glu Leu Leu Met			
595	600	605	
Ala Gln Pro Arg Cys Val Gln Ile Gln Lys Ala Trp Leu Arg Gly Val			
610	615	620	
Val Pro Val Val Met Asp Cys Glu Ser Thr Val Gln Glu Lys Ala Leu			
625	630	635	640
Glu Phe Leu Asp Gln Leu Leu Leu Gln Asn Ile Arg His His Ser His			
	645	650	655
Phe His Ser Gly Asp Asp Ser Gln Val Leu Ala Trp Ala Leu Leu Thr			
	660	665	670
Leu Leu Thr Thr Glu Ser Gln Glu Leu Ser Arg Tyr Leu Asn Lys Ala			
	675	680	685
Phe His Ile Trp Ser Lys Lys Glu Lys Phe Ser Pro Thr Phe Ile Asn			
	690	695	700
Asn Val Ile Ser His Thr Gly Thr Glu His Ser Ala Pro Ala Trp Met			
705	710	715	720
Leu Leu Ser Lys Ile Ala Gly Ser Ser Pro Arg Leu Asp Tyr Ser Arg			
	725	730	735
Ile Ile Gln Ser Trp Glu Lys Ile Ser Ser Gln Gln Asn Pro Asn Ser			
	740	745	750
Asn Thr Leu Gly His Ile Leu Cys Val Ile Gly His Ile Ala Lys His			
	755	760	765
Leu Pro Lys Ser Thr Arg Asp Lys Val Thr Asp Ala Val Lys Cys Lys			
	770	775	780
Leu Asn Gly Phe Gln Trp Ser Leu Glu Val Ile Ser Ser Ala Val Asp			
785	790	795	800
Ala Leu Gln Arg Leu Cys Arg Ala Ser Ala Glu Thr Pro Ala Glu Glu			
	805	810	815
Gln Glu Leu Leu Thr Gln Val Cys Gly Asp Val Leu Ser Thr Cys Glu			
	820	825	830
His Arg Leu Ser Asn Ile Val Leu Lys Glu Asn Gly Thr Gly Asn Met			
	835	840	845
Asp Glu Asp Leu Leu Val Lys Tyr Ile Phe Thr Leu Gly Asp Ile Ala			
	850	855	860
Gln Leu Cys Pro Ala Arg Val Glu Lys Arg Ile Phe Leu Leu Ile Gln			
865	870	875	880

15

Val His His Pro Glu Ser Cys Leu Ile Ser Leu Gln Thr His Cys His  
                   20                          25                          30  
 Asn Asp Ile Val Asn Leu Leu Leu Asp Cys Gly Ala Asp Val Asn Lys  
                   35                          40                          45  
 Cys Ser Asp Glu Gly Leu Thr Ala Leu Ser Met Cys Phe Leu Leu His  
                   50                          55                          60  
 Tyr Pro Ala Gln Ser Phe Lys Pro Asn Val Ala Glu Arg Thr Ile Pro  
                   65                          70                          75                          80  
 Glu Pro Gln Glu Pro Pro Lys Phe Pro Val Val Pro Ile Leu Ser Ser  
                   85                          90                          95  
 Ser Phe Met Asp Thr Asn Leu Glu Ser Leu Tyr Tyr Glu Val Asn Val  
                   100                          105                          110  
 Pro Ser Gln Gly Ser Tyr Glu Leu Arg Pro Pro Pro Ala Pro Leu Leu  
                   115                          120                          125  
 Leu Pro Arg Val Ser Gly Ser His Glu Gly Gly His Phe Gln Asp Thr  
                   130                          135                          140  
 Gly Gln Cys Gly Gly Ser Met Asp His Arg Ser Ser Ser Leu Lys Gly  
                   145                          150                          155                          160  
 Asp Ser Pro Leu Val Lys Gly Ser Leu Gly His Val Glu Ser Gly Leu  
                   165                          170                          175  
 Glu Asp Val Leu Gly Asn Thr Asp Arg Gly Ser Leu Cys Ser Ala Glu  
                   180                          185                          190  
 Thr Lys Phe Glu Ser Asn Val Cys Val Cys Asp Phe Ser Ile Glu Leu  
                   195                          200                          205  
 Ser Gln Ala Met Leu Glu Arg Ser Ala Gln Ser His Ser Leu Leu Lys  
                   210                          215                          220  
 Met Ala Ser Pro Ser Pro Cys Thr Ser Ser Phe Asp Lys Gly Thr Met  
                   225                          230                          235                          240  
 Arg Arg Met Ala Leu Ser Met Ile Glu  
   245

&lt;210&gt; 2669

&lt;211&gt; 613

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2669

Met Ala Thr Ile Pro Asp Trp Lys Leu Gln Leu Leu Ala Arg Arg Arg  
 1 5 10 15  
 Gln Glu Glu Ala Ser Val Arg Gly Arg Glu Lys Ala Glu Arg Glu Arg  
 20 25 30  
 Leu Ser Gln Met Pro Ala Trp Lys Arg Gly Leu Leu Glu Arg Arg Arg  
 35 40 45  
 Ala Lys Leu Gly Leu Ser Pro Gly Glu Pro Ser Pro Val Leu Gly Thr  
 50 55 60  
 Val Glu Ala Gly Pro Pro Asp Pro Asp Glu Ser Ala Val Leu Leu Glu  
 65 70 75 80  
 Ala Ile Gly Pro Val His Gln Asn Arg Phe Ile Arg Gln Glu Arg Gln  
 85 90 95  
 Gln Gln Gln Gln Gln Gln Gln Arg Ser Glu Glu Leu Leu Ala Glu Arg  
 100 105 110  
 Lys Pro Gly Pro Leu Glu Ala Arg Glu Arg Arg Pro Ser Pro Gly Glu  
 115 120 125  
 Met Arg Asp Gln Ser Pro Lys Gly Arg Glu Ser Arg Glu Glu Arg Leu  
 130 135 140  
 Ser Pro Arg Glu Thr Arg Glu Arg Arg Leu Gly Ile Gly Gly Ala Gln  
 145 150 155 160  
 Glu Leu Ser Leu Arg Pro Leu Glu Ala Arg Asp Trp Arg Gln Ser Pro  
 165 170 175  
 Gly Glu Val Gly Asp Arg Ser Ser Arg Leu Ser Glu Ala Trp Lys Trp  
 180 185 190  
 Arg Leu Ser Pro Gly Glu Thr Pro Glu Arg Ser Leu Arg Leu Ala Glu  
 195 200 205  
 Ser Arg Glu Gln Ser Pro Arg Arg Lys Glu Val Glu Ser Arg Leu Ser  
 210 215 220  
 Pro Gly Glu Ser Ala Tyr Gln Lys Leu Gly Leu Thr Glu Ala His Lys  
 225 230 235 240  
 Trp Arg Pro Asp Ser Arg Glu Ser Gln Glu Gln Ser Leu Val Gln Leu  
 245 250 255  
 Glu Ala Thr Glu Trp Arg Leu Arg Ser Gly Glu Glu Arg Gln Asp Tyr

260	265	270
Ser Glu Glu Cys Gly Arg Lys	Glu Glu Trp Pro Val	Pro Gly Val Ala
275	280	285
Pro Lys Glu Thr Ala Glu Leu	Ser Glu Thr Leu Thr Arg	Glu Ala Gln
290	295	300
Gly Asn Ser Ser Ala Gly Val	Glu Ala Ala Glu Gln Arg	Pro Val Glu
305	310	315
Asp Gly Glu Arg Gly Met Lys	Pro Thr Glu Gly Trp Lys	Trp Thr Leu
325	330	335
Asn Ser Gly Lys Ala Arg Glu	Trp Thr Pro Arg Asp Ile	Glu Ala Gln
340	345	350
Thr Gln Lys Pro Glu Pro Pro	Glu Ser Ala Glu Lys Leu	Leu Glu Ser
355	360	365
Pro Gly Val Glu Ala Gly Glu	Gly Glu Ala Glu Lys Glu	Glu Ala Gly
370	375	380
Ala Gln Gly Arg Pro Leu Arg	Ala Leu Gln Asn Cys Cys	Ser Val Pro
385	390	395
Ser Pro Leu Pro Pro Glu Asp	Ala Gly Thr Gly Gly Leu	Arg Gln Gln
405	410	415
Glu Glu Glu Ala Val Glu Leu	Gln Pro Pro Pro Pro Ala	Pro Leu Ser
420	425	430
Pro Pro Pro Pro Ala Pro Thr	Ala Pro Gln Pro Pro Gly	Asp Pro Leu
435	440	445
Met Ser Arg Leu Phe Tyr Gly	Val Lys Ala Gly Pro Gly	Val Gly Ala
450	455	460
Pro Arg Arg Ser Gly His Thr	Phe Thr Val Asn Pro Arg	Arg Ser Val
465	470	475
Pro Pro Ala Thr Pro Ala Thr	Pro Thr Ser Pro Ala Thr	Val Asp Ala
485	490	495
Ala Val Pro Gly Ala Gly Lys	Lys Arg Tyr Pro Thr Ala	Glu Glu Ile
500	505	510
Leu Val Leu Gly Gly Tyr Leu	Arg Leu Ser Arg Ser Cys	Leu Ala Lys
515	520	525
Gly Ser Pro Glu Arg His His	Lys Gln Leu Lys Ile Ser	Phe Ser Glu
530	535	540
Thr Ala Leu Glu Thr Thr Tyr	Gln Tyr Pro Ser Glu Ser	Ser Val Leu

545                      550                      555                      560  
 Glu Glu Leu Gly Pro Glu Pro Glu Val Pro Ser Ala Pro Asn Pro Pro  
                          565                      570                      575  
 Ala Ala Gln Pro Asp Asp Glu Glu Asp Glu Glu Glu Leu Leu Leu Leu  
                          580                      585                      590  
 Gln Pro Glu Leu Gln Gly Gly Leu Arg Thr Lys Ala Leu Ile Val Asp  
                          595                      600                      605  
 Glu Ser Cys Arg Arg  
                          610

<210> 2670

<211> 329

<212> PRT

<213> Homo sapiens

<400> 2670

Met Leu Pro Leu Glu Pro Tyr Leu Thr Gln Thr Ser Ala Val Pro Gln  
   1                      5                      10                      15  
 Met Ser His Phe Met Cys His Ser Pro Thr His Lys Pro Gln Gly Leu  
                          20                      25                      30  
 Leu Pro Trp Ala Pro Phe His Gln Ala Ser Val Ser Leu Tyr Pro Ile  
                          35                      40                      45  
 Ser Pro Trp Pro Ser Glu Ser Val Cys Pro Pro Thr Cys Pro Gly Gly  
                          50                      55                      60  
 Ala Ser Cys Trp Phe Pro Ala Gly Asn Ala Trp Asp Arg Val Glu Leu  
                          65                      70                      75                      80  
 Gly Phe Leu Gly Phe Gly Ala Gly Gly Val Ser Ile Ala Val Pro Gly  
                          85                      90                      95  
 Phe Pro Leu Ser Cys Gly Gln Gly Cys Cys Ala Gly Gly Trp Leu Gly  
                          100                      105                      110  
 His Gly Ala Arg Phe Pro Ala Lys Leu Arg Ala Phe Pro Gln Val Ile  
                          115                      120                      125  
 Arg Arg Gly Trp Leu Thr Ile Asn Asn Ile Ser Leu Met Lys Gly Gly  
                          130                      135                      140  
 Ser Lys Glu Tyr Trp Phe Val Leu Thr Ala Glu Ser Leu Ser Trp Tyr

145                      150                      155                      160  
 Lys Asp Glu Glu Glu Lys Glu Lys Lys Tyr Met Leu Pro Leu Asp Asn  
                             165                      170                      175  
 Leu Lys Ile Arg Asp Val Glu Lys Gly Phe Met Ser Asn Lys His Val  
                             180                      185                      190  
 Phe Ala Ile Phe Asn Thr Glu Gln Arg Asn Val Tyr Lys Asp Leu Arg  
                             195                      200                      205  
 Gln Ile Glu Leu Ala Cys Asp Ser Gln Glu Asp Val Asp Ser Trp Lys  
                             210                      215                      220  
 Ala Ser Phe Leu Arg Ala Gly Val Tyr Pro Glu Lys Asp Gln Val Arg  
 225                      230                      235                      240  
 Ser Arg Pro Ala Gln Pro Gly Pro Glu Pro Pro Pro Gly Arg Gly Ser  
                             245                      250                      255  
 Arg Ala Gly Phe Pro Gln Asp Arg Ser Phe Ser Gly His Val Ser Gln  
                             260                      265                      270  
 Glu Ser Leu Lys Ser Cys Ser Arg Cys Pro Leu Glu Gln Ala Lys Glu  
                             275                      280                      285  
 Lys Leu Gly Val Leu Cys His Gln Gly Pro Glu Ser Ser Leu Thr Glu  
                             290                      295                      300  
 Ala Ser Asp Arg Gly Thr Gln Gly Met Gly Ser His Leu Leu Cys Ser  
 305                      310                      315                      320  
 Leu Leu Phe Ser Pro Ser Ile Leu Arg  
                             325

<210> 2671

<211> 119

<212> PRT

<213> Homo sapiens

<400> 2671

Met Val Phe His Tyr Ile Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser  
   1                      5                      10                      15  
 Ser Asp Leu Pro Ala Leu Ala Ser Arg Asn Ala Gly Val Thr Gly Met  
                             20                      25                      30  
 Ser Tyr His Ala Arg Pro Gln Asn Pro Gly Thr Ser Ala Gly Ala Arg

35                      40                      45  
 Gly Gln Asn Arg Leu Leu Tyr Trp Asp Cys Leu Ala Gly Arg Thr Asp  
 50                      55                      60  
 Ala Gln Gly Gly Pro Met Arg Thr Gln Pro Pro Gly Lys Met Val Glu  
 65                      70                      75                      80  
 Gly Lys Ile Leu Pro Thr Ser Ser Asp Ser Leu Ser Gln Leu His Trp  
 85                      90                      95  
 Ser Ile Ile Ser Phe Leu Phe Leu Lys Ser Val Ser Leu Val Ser Val  
 100                      105                      110  
 Pro Gly Lys Trp Thr Gln Phe  
 115

<210> 2672

<211> 155

<212> PRT

<213> Homo sapiens

<400> 2672

Met Ala Gly Cys Val His Leu Leu Ala Met Val Ile Leu Ser Ser Gly  
 1                      5                      10                      15  
 Glu Phe Arg Gly Val Val Gly Pro Gly Asp Lys Glu Gly Arg Lys Asp  
 20                      25                      30  
 Gly Arg Ser Leu Asp Thr Val Thr Ala Val Trp Phe Leu Ser Ser Val  
 35                      40                      45  
 Tyr Trp Asp Tyr Ala Leu Val Val Pro Phe Ser Gln Val Val Cys Ile  
 50                      55                      60  
 His Cys His Gln Gln Ser Lys Pro Ala Leu Ser Ser Ala Arg Val Gly  
 65                      70                      75                      80  
 Arg Glu Arg Leu Pro Ser Ala Ser Cys Ala Leu Cys Val Gly Pro Val  
 85                      90                      95  
 Arg Leu Leu Val Leu Leu Pro Ser Leu Leu Met Gly Leu Pro Gly His  
 100                      105                      110  
 Ala Val Ala Gln Pro Ser Ala Ser Tyr Pro Ala Trp Gly His Trp Pro  
 115                      120                      125  
 Ala Gly Cys Asp Ser Arg Arg Glu Gly Leu Ser Arg Thr Leu His Val



130 135 140  
 His Pro Gln Arg Ala Val Ala Arg Leu Cys Trp  
 145 150 155

<210> 2673  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 2673  
 Met Ala Gly Pro Ser Pro Leu Trp Ala Leu Leu Ser Pro Ala Leu Pro  
 1 5 10 15  
 Cys Phe Ser Pro Ser Tyr Leu Arg Gly Cys Thr Leu Gln Pro Pro Ile  
 20 25 30  
 Gly Ser Leu Pro Pro Pro Thr Val Pro Ser Ile Thr Pro Cys Pro Gln  
 35 40 45  
 Gly Gly Ser Phe Pro Ser Pro Gly Ser Arg Ala Cys Leu Arg Leu Arg  
 50 55 60  
 Asp Ser Leu Pro Leu Asp Glu Gly Val Leu Gly Phe Pro Ser Cys Phe  
 65 70 75 80  
 Leu Leu Ser Trp Ala Thr Pro Ser His Pro Gly Val Gly Glu Glu Gln  
 85 90 95  
 Gly Val Gly Ala His Ser Phe Pro Leu Leu Pro Glu Leu Val Cys  
 100 105 110  
 Thr Ala Leu Val Cys Gly Ala Arg Met Cys Leu Ser Pro Glu Ser  
 115 120 125

<210> 2674  
 <211> 272  
 <212> PRT  
 <213> Homo sapiens

<400> 2674  
 Met His Gly Ala Leu Phe Arg Leu His Gly Gln Ala Gly His Arg Gln

1	5	10	15
Arg Arg Pro Pro Ala Leu Thr Cys Leu Cys Gly Leu Thr Arg Glu Gly			
20	25	30	
Ala Asp Arg Val Leu Ser Ala Glu Val Lys Ala Leu His Glu Ala Ile			
35	40	45	
Leu Gly Ala Thr Glu Gln His Val Gly Phe Gly Gly Val Glu Ala Asp			
50	55	60	
Phe Val Tyr Arg Ala Leu Val Phe Cys Glu Gln Leu Val Leu Leu Val			
65	70	75	80
Ala Gly Trp Pro Ala Gln Val Pro Arg Asp His His Ala Ile Gly Gly			
85	90	95	
Cys Cys Gly Gln Gln Val Leu Ile His Leu Val Pro Asp His Val Ser			
100	105	110	
Thr Ala Gln Val Lys Arg Arg Leu Ala Pro His Thr Gln Val Gln Leu			
115	120	125	
Phe His Glu Leu Phe Leu Leu Asp Gly Ile Asp Leu Glu Asp Ala Thr			
130	135	140	
Ala Cys His Asp His Leu Gly Cys Val Ala Ala His Thr Asp Gly Ile			
145	150	155	160
Gly Gly Ser Ile Gln Val Ala Val His Gly Ala Ala Cys Gln His Ala			
165	170	175	
Ala Thr Gln Gly Cys Gly His Thr Gly His Leu Leu His Gly Cys Thr			
180	185	190	
Gly Asp Glu Val Arg Gly Gln Glu Val Ser Glu Val Gly Trp Pro Gly			
195	200	205	
Gln Pro Gly Trp Val Ile Ser Ser Asp Leu Pro Pro Arg Leu Gly Pro			
210	215	220	
Gln Asn Cys Leu Val Pro Gly Trp Ser Val Leu Val Ser Gln Ser Arg			
225	230	235	240
Ala Val Tyr Gln Pro Ile Ser Leu Thr Gly Lys Leu Lys Phe Thr Gly			
245	250	255	
Val Cys Gln Ser Ser Pro Ser Pro Trp Leu Ser Gly Glu Gly Thr Ser			
260	265	270	

&lt;210&gt; 2675

&lt;211&gt; 189

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2675

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Met Asp Asn Thr Cys Tyr Pro Cys Pro Ala Pro Arg Ala Arg Lys Tyr
  1              5              10              15
Lys Cys Gly Leu Pro Gln Pro Cys Pro Glu Glu His Leu Ala Phe Arg
      20              25              30
Val Val Ser Gly Ala Ala Asn Val Ile Gly Pro Lys Ile Cys Leu Glu
      35              40              45
Asp Lys Met Leu Met Ser Ser Val Lys Asp Asn Val Gly Arg Gly Leu
      50              55              60
Asn Ile Ala Leu Val Asn Gly Val Ser Gly Glu Leu Ile Glu Ala Arg
      65              70              75              80
Ala Phe Asp Met Trp Ala Gly Asp Val Asn Asp Leu Leu Lys Phe Ile
      85              90              95
Arg Pro Leu His Glu Gly Thr Leu Val Phe Val Ala Ser Tyr Asp Asp
      100             105             110
Pro Ala Thr Lys Met Asn Glu Glu Thr Arg Lys Leu Phe Ser Glu Leu
      115             120             125
Gly Ser Arg Asn Ala Lys Glu Leu Ala Phe Arg Asp Ser Trp Val Phe
      130             135             140
Val Gly Ala Lys Gly Val Gln Asn Lys Ser Pro Phe Glu Gln His Val
      145             150             155             160
Lys Asn Ser Lys His Ser Asn Lys Tyr Glu Gly Trp Pro Glu Ala Leu
      165             170             175
Glu Met Glu Gly Cys Ile Pro Arg Arg Ser Thr Ala Ser
      180             185

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&lt;210&gt; 2676

&lt;211&gt; 140

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2676

Met Thr Pro Gly Pro Asn His His Pro Gly Arg Arg Ala Gln Leu Ser  
 1 5 10 15  
 Arg Thr Ser Pro Tyr Ile Phe Leu Pro His His Glu Ser Ile Tyr Gln  
 20 25 30  
 Gln Ala Tyr Arg His Pro Leu Arg Ala Ala Pro Glu Glu Val Ala Gly  
 35 40 45  
 Cys Gly Ile Leu Arg Ser Leu His Ser Ser Lys Ser Gly Leu Ala Trp  
 50 55 60  
 Gly Thr Leu Pro Asp Leu Glu Glu Asp Pro Glu Ala Glu Gly Ser Glu  
 65 70 75 80  
 Leu Arg Ala Phe Pro Ala Pro Ala Pro Ser Trp Gln Gln Thr Cys His  
 85 90 95  
 Gln Ala Leu Gly Lys Ser Cys Phe Cys Gly Leu Ser Pro Ser Ser Arg  
 100 105 110  
 Pro Leu Glu Leu Pro Pro Pro Ser Cys Pro Phe Phe Ser Lys Ala Pro  
 115 120 125  
 Trp Val Arg Ile Arg Gly Ser Val Cys Ser Leu Ile  
 130 135 140

&lt;210&gt; 2677

&lt;211&gt; 131

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2677

Met Val Arg Met Ser Arg Pro Leu Phe Leu Asp Trp Ala Trp Arg Pro  
 1 5 10 15  
 Leu Cys Ser Pro Ser Gln Ser Leu Pro Leu Thr Tyr Gly Pro Glu Gly  
 20 25 30  
 Trp Ile Leu Gln Trp Lys Gly Thr Cys Arg Gln Gln Thr Ala Leu His  
 35 40 45  
 Cys Pro Phe Asp Phe Pro Gln Ala Pro Leu Arg Gly Arg His Thr Leu  
 50 55 60  
 Ser Gln Val Pro Asn Lys Gly His Glu Lys Ala Ser Ala Val Gln Leu

65                      70                      75                      80  
 Pro Glu Lys Gln Gly Thr Asp Gln Ser Arg Arg Gly Pro Thr Ser Ala  
                          85                      90                      95  
 Val Thr Lys Ala Arg Thr Ser Tyr Pro Glu Ser Glu Thr Phe Ile Val  
                          100                      105                      110  
 Tyr Leu Cys Ser Tyr Phe Trp Asn Ser Ser Lys Gly Val Tyr Met Ser  
                          115                      120                      125  
 Gly Ser Thr

130

<210> 2678

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2678

Met Asp Ser Gln Lys Ser Ala Cys Glu Met Gly Leu Ala Arg Ala Pro  
   1                      5                      10                      15  
 Gln Gly Gln Ala Pro Gln Glu Ile Cys Pro Gln Pro Ala Pro Pro Gly  
                          20                      25                      30  
 Asp Arg Pro Pro Thr Val Ala Cys Met Ala Gly Arg Gly Met Ala Leu  
                          35                      40                      45  
 Ser Pro Gln His His Pro Tyr Thr Cys Cys Leu Tyr Gln His Pro Leu  
                          50                      55                      60  
 Leu Pro Pro Pro Pro Pro Ala Thr Thr Val His Ser Leu Pro His Arg  
   65                      70                      75                      80  
 Pro Ala Phe Pro His Pro Pro Asn Thr Cys Thr His Ser Ile Pro Phe  
                          85                      90                      95  
 Pro His Val Leu Leu Arg Thr Gly Ala Trp Ala Ser Gly Thr Ala Trp  
                          100                      105                      110  
 Glu Ser Thr Pro Trp Trp Asp Met Lys Arg Ile Leu Gly Val Trp Phe  
                          115                      120                      125  
 Val Asp Gln Gly Ser Leu Leu Thr Val Trp Gly Glu Val Ser Gly Gly  
                          130                      135                      140

Trp Thr Arg Ala Ser Glu Leu Gln Arg Cys Phe Phe Leu Lys Pro Ser  
 145                      150                      155                      160

Ser Asp Ser Met Gly Leu Ala  
                                  165

<210> 2679

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2679

Met Thr Thr Thr Ala Pro Gly Val Gly Ser Glu Ser Gln Val Glu Arg  
   1                                  5                                  10                                  15

Leu Leu Ala Cys Gly Gly Arg Trp Gly Ala Arg Arg Gln Gly Cys Cys  
                                   20                                  25                                  30

Trp His Asp Leu Pro Lys Ala Pro His Ala Gly Cys Phe Leu Ala Ser  
                                   35                                  40                                  45

Ser Leu Arg Val Gln Val Arg Gln Lys Pro Leu Asn Val Arg Leu Gln  
                                   50                                  55                                  60

Asp Pro Val Pro Ala Val Ala Val Leu Gly Glu Lys Lys Val Gly Asp  
   65                                  70                                  75                                  80

Asp Gln Glu Pro Cys Thr Lys Thr Ala Ala Val Arg Glu Gly Glu Ser  
   -                                  85                                  90                                  95

Val Gly Cys Thr Ala Glu Gly Gly Cys Leu Gly Leu Ser Gly Gly Cys  
                                   100                                  105                                  110

Gln Gly Trp Leu Ala Pro Gly Leu Val Glu Leu Arg Ser Ala Ala Leu  
                                   115                                  120                                  125

Asn Val Cys Ser Gly Tyr Phe Val Leu  
                                   130                                  135

<210> 2680

<211> 266

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2680

Met Ser Thr Leu Ser Gly Arg Pro Leu Ser Ser Leu Leu Leu Gly Gln  
 1 5 10 15  
 Gly Asp His Arg Ser Ala Thr Trp Leu Gly Arg Gly Gly Gly Ala Gly  
 20 25 30  
 Pro Gly Gln Ser Gly Pro Gly His Gly Gln Gly Thr Ala Thr Ser Trp  
 35 40 45  
 Ala Arg Thr Gly Glu Arg Gly Ala Gly Pro Gly Pro Ala Cys Pro Arg  
 50 55 60  
 Cys Ala Gly Glu Ala Ser Arg Gly Arg Gln Arg Ala Arg Ser Gly Pro  
 65 70 75 80  
 Arg Arg Ser Pro Arg Pro Pro Arg Cys Pro Ala Pro Arg Leu Ala Asp  
 85 90 95  
 Pro Ala Ser Ser Arg Ser Asp Ala Pro Ala Pro Pro Arg Gly Arg Ser  
 100 105 110  
 Pro Arg Val Leu Leu Phe Pro Gln Val Gln Ala Glu Pro Leu Glu Pro  
 115 120 125  
 Trp Pro Ala Leu Pro Ala Ala Pro Lys Pro Leu Ala Ser Pro Glu Ala  
 130 135 140  
 Gly Met Ala Gly Pro Gly Gly Arg Arg Thr Thr Ser Leu Leu Lys Arg  
 145 150 155 160  
 Arg Gly Cys Gly Cys Cys Trp Arg Gly Glu Ala His Ser Pro Arg Thr  
 165 170 175  
 Ala Arg Thr Gly Arg Thr Arg Cys Gly Arg Ala Arg Arg Thr Pro Ala  
 180 185 190  
 Pro Arg Gln Val Ala Thr Ala Glu Glu Arg Asn Ser Pro Arg Val Leu  
 195 200 205  
 Ser Ser Leu Gly Phe Pro Thr Thr Ser Lys Ser Trp Lys Thr Gln Gly  
 210 215 220  
 Arg Ala Arg Gly Ala Met Ala Ser Pro Ser Ser Ser Ser Glu Ala Thr  
 225 230 235 240  
 Gly Lys Pro Arg Gly Arg Asp Gly Ser Pro Arg Met Gly Glu Glu Asp  
 245 250 255  
 Val Pro Pro Glu Glu Lys Arg Leu Gly Leu  
 260 265

<210> 2681

<211> 105

<212> PRT

<213> Homo sapiens

<400> 2681

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Met Gln Tyr Ser Val Trp Ala Leu Ile Gly Ser Arg Leu Ser Gln Pro
 1             5             10             15
Lys Arg Gln Glu Thr Ala Lys Ala Ser Leu Lys Leu Arg Gly Lys Leu
          20             25             30
Leu Ser Pro His Pro Ser Glu Ser Leu Leu Glu Pro Pro Gly Glu Leu
      35             40             45
Cys Ser Leu Asp Arg Pro Ala Ala Ile Gly His Leu Pro Ser Leu Gly
      50             55             60
Pro Gln His Arg Gly Ala Gln Val Thr Gly Cys Leu Leu Arg Ala Val
 65             70             75             80
Thr Gly Gln Ala Ile Tyr Asn Ser Val Cys Ala Trp Ala Leu Gln Cys
          85             90             95
Val His Ala Val Gly Val Asp Gly Cys
      100             105

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<210> 2682

<211> 190

<212> PRT

<213> Homo sapiens

<400> 2682

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Met Ala Leu Arg Gly His Pro Glu Pro Gln Pro Thr Asn Thr Pro Leu
 1             5             10             15
Ser Ala Thr Val Gly Gly Pro Ile Ser Leu Phe Thr Gln Pro Arg Cys
          20             25             30
His Ser Ala Ala Arg Asp Leu Val Trp Ser Gln Ala Trp Pro Asp Pro
      35             40             45

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Asp Val Leu Glu Ile Ser Met Gln Thr Pro Gly Gly Ser Ser Cys Arg  
 50 55 60  
 Lys Glu Ala Val Leu Pro Arg Leu Arg Val Thr Arg Pro Leu Val Pro  
 65 70 75 80  
 Glu Pro Ala Ile Leu Pro Val Cys Ala Ala Arg Leu Ala Gly Ser Leu  
 85 90 95  
 Ala Thr Asp Leu Ser Arg Ser His Ser Leu Leu Pro Pro Trp Val Asp  
 100 105 110  
 Leu Lys Glu Pro Pro Pro Pro Ser Ala Pro Ser Leu Leu Leu Glu Asp  
 115 120 125  
 Pro Gly Gln Gly Gly Cys His Gly Ala Gln Ser Cys Val Gly Thr Cys  
 130 135 140  
 Glu Leu Ala Asn Gly Ala Arg Gly Phe Cys Pro Glu Met Gly Gln Asn  
 145 150 155 160  
 Glu Ser Leu Ser Glu Glu Arg Lys Gly His Glu Ser Lys Arg Lys Ser  
 165 170 175  
 Gly Gly Arg Gly Ser Pro Ser Ser His Pro Thr Gln Ala Ser  
 180 185 190

<210> 2683

<211> 354

<212> PRT

<213> Homo sapiens

<400> 2683

Met Val Gly Lys Tyr Phe Ser Arg Arg Lys Ala Leu Ala Tyr Gly Ile  
 1 5 10 15  
 Ala Met Ser Gly Ser Gly Ile Gly Thr Phe Ile Leu Ala Pro Val Val  
 20 25 30  
 Gln Leu Leu Ile Glu Gln Phe Ser Trp Arg Gly Ala Leu Leu Ile Leu  
 35 40 45  
 Gly Gly Phe Val Leu Asn Leu Cys Val Cys Gly Ala Leu Met Arg Pro  
 50 55 60  
 Ile Thr Leu Lys Glu Asp His Thr Thr Pro Glu Gln Asn His Val Cys  
 65 70 75 80

Arg Thr Gln Lys Glu Asp Ile Lys Arg Val Ser Pro Tyr Ser Ser Leu

	85	90	95
Thr Lys Glu Trp Ala Gln Thr Cys Leu Cys Cys Cys Leu Gln Gln Glu			
100	105	110	
Tyr Ser Phe Leu Leu Met Ser Asp Phe Val Val Leu Ala Val Ser Val			
115	120	125	
Leu Phe Met Ala Tyr Gly Cys Ser Pro Leu Phe Val Tyr Leu Val Pro			
130	135	140	
Tyr Ala Leu Ser Val Gly Val Ser His Gln Gln Ala Ala Phe Leu Met			
145	150	155	160
Ser Ile Leu Gly Val Ile Asp Ile Ile Gly Asn Ile Thr Phe Gly Trp			
165	170	175	
Leu Thr Asp Arg Arg Cys Leu Lys Asn Tyr Gln Tyr Val Cys Tyr Leu			
180	185	190	
Phe Ala Val Gly Met Asp Gly Leu Ser Tyr Leu Cys Leu Pro Met Leu			
195	200	205	
Gln Ser Leu Pro Leu Leu Val Pro Phe Ser Cys Thr Phe Gly Tyr Phe			
210	215	220	
Asp Gly Ala Tyr Val Thr Leu Ile Pro Val Val Thr Thr Glu Ile Val			
225	230	235	240
Gly Thr Thr Ser Leu Ser Ser Ala Leu Gly Val Val Tyr Phe Leu His			
245	250	255	
Ala Val Pro Tyr Leu Val Ser Pro Pro Ile Ala Gly Arg Leu Val Asp			
260	265	270	
Thr Thr Gly Ser Tyr Thr Ala Ala Phe Leu Leu Cys Gly Phe Ser Met			
275	280	285	
Ile Phe Ser Ser Val Leu Leu Gly Phe Ala Arg Leu Ile Lys Arg Met			
290	295	300	
Arg Lys Thr Gln Leu Gln Phe Ile Ala Lys Glu Ser Asp Pro Lys Leu			
305	310	315	320
Gln Leu Trp Thr Asn Gly Ser Val Ala Tyr Ser Val Ala Arg Glu Leu			
325	330	335	
Asp Gln Lys His Gly Glu Pro Val Ala Thr Ala Val Pro Gly Tyr Ser			
340	345	350	
Leu Thr			

&lt;210&gt; 2684

&lt;211&gt; 1168

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2684

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Met His Ile Val Lys Gly Lys Leu Glu Asn Val Arg Val Met Leu Val
  1             5             10             15
Pro Ser Pro Arg Tyr Val Gly Leu Gln Asn Asp Glu Pro Pro Arg Leu
      20             25             30
Met Gly Glu Gly Phe Val Val Met Gln Ser Asn Asp Val Asp Ile Tyr
      35             40             45
Tyr Tyr Met Asp Glu Pro Gly Leu Val Pro Glu Glu Thr Glu Glu Asn
      50             55             60
Ile Glu Gly Glu Met Ser Ser Glu Asp Cys Lys Leu Gln Asp Leu Pro
      65             70             75             80
Pro Cys Trp Gly Leu Asp Ile Val Cys Gly Lys Gly Thr Asp Phe Asn
      85             90             95
Tyr Gly Pro Trp Ala Asp Arg Gln Arg Asp Cys Leu Trp Lys Phe Phe
      100            105            110
Phe Pro Pro Asp Tyr Gln Val Leu Lys Val Ser Glu Ile Ala Gln Pro
      115            120            125
Gly Arg Pro Arg Gln Ile Leu Ala Phe Glu Leu Arg Met Asn Ile Ile
      130            135            140
Ala Asp Ala Thr Ile Asp Leu Leu Phe Thr Lys Asn Arg Glu Thr Asn
      145            150            155            160
Ala Val His Val Asn Val Gly Ala Gly Ser Tyr Leu Glu Ile Asn Ile
      165            170            175
Pro Met Thr Val Glu Glu Asn Gly Tyr Thr Pro Ala Ile Lys Gly Gln
      180            185            190
Leu Leu His Val Asp Ala Thr Thr Ser Met Gln Tyr Arg Thr Leu Leu
      195            200            205
Glu Ala Glu Met Leu Ala Phe His Ile Asn Ala Ser Tyr Pro Arg Ile

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210	215	220	
Trp Asn Met Pro Gln Thr	Trp Gln Cys Glu Leu	Glu Val Tyr Lys Ala	
225	230	235	240
Thr Tyr His Phe Ile	Phe Ala Gln Lys Asn Phe	Phe Thr Asp Leu Ile	
	245	250	255
Gln Asp Trp Ser Ser Asp	Ser Pro Pro Asp Ile	Phe Ser Phe Val Pro	
	260	265	270
Tyr Thr Trp Asn Phe Lys	Ile Met Phe His Gln	Phe Glu Met Ile Trp	
	275	280	285
Ala Ala Asn Gln His Asn	Trp Ile Asp Cys Ser Thr	Lys Gln Gln Glu	
290	295	300	
Asn Val Tyr Leu Ala Ala	Cys Gly Glu Thr Leu	Asn Ile Asp Phe Ser	
305	310	315	320
Leu Pro Phe Thr Asp Phe	Val Pro Ala Thr Cys	Asn Thr Lys Phe Ser	
	325	330	335
Leu Arg Gly Glu Asp Val	Asp Leu His Leu Phe	Leu Pro Asp Cys His	
	340	345	350
Pro Ser Lys Tyr Ser Leu	Phe Met Leu Val Lys	Asn Cys His Pro Asn	
	355	360	365
Lys Met Ile His Asp Thr	Gly Ile Pro Ala Glu	Cys Gln Ser Gly Gln	
370	375	380	
Lys Thr Val Lys Pro Lys	Trp Arg Asn Val Thr	Gln Glu Lys Ser Gly	
385	390	395	400
Trp Val Glu Cys Trp Thr	Val Pro Ser Val Met	Leu Thr Ile Asp Tyr	
	405	410	415
Thr Trp His Pro Ile Tyr	Pro Gln Lys Ala Asp	Glu Gln Leu Lys Gln	
	420	425	430
Ser Leu Ser Glu Met Glu	Glu Thr Met Leu Ser	Val Leu Arg Pro Ser	
	435	440	445
Gln Lys Thr Ser Asp Arg	Val Val Ser Ser Pro	Ser Thr Ser Ser Arg	
450	455	460	
Pro Pro Ile Asp Pro Ser	Glu Leu Pro Pro Asp	Lys Leu His Val Glu	
465	470	475	480
Met Glu Leu Ser Pro Asp	Ser Gln Ile Thr Leu	Tyr Gly Pro Leu Leu	
	485	490	495
Asn Ala Phe Leu Cys Ile	Lys Glu Asn Tyr Phe	Gly Glu Asp Asp Met	

500	505	510
Tyr Met Asp Phe Glu Glu Val Ile Ser Ser Pro Val Leu Ser Leu Ser		
515	520	525
Thr Ser Ser Ser Ser Gly Trp Thr Ala Val Gly Met Glu Asn Asp Lys		
530	535	540
Lys Glu Asn Glu Gly Ser Ala Lys Ser Ile His Pro Leu Ala Leu Arg		
545	550	555
Pro Trp Asp Ile Thr Val Leu Val Asn Leu Tyr Lys Val His Gly Arg		
565	570	575
Leu Pro Val His Gly Thr Thr Asp Gly Pro Glu Cys Pro Thr Ala Phe		
580	585	590
Leu Glu Arg Leu Cys Phe Glu Met Lys Lys Gly Phe Arg Glu Thr Met		
595	600	605
Leu Gln Pro Ile Leu Ser Pro Leu Asn Val Phe Val Ser Asp Asn Tyr		
610	615	620
Gln Arg Pro Pro Val Asp Glu Val Leu Arg Glu Gly His Ile Asn Leu		
625	630	635
Ser Gly Leu Gln Leu Arg Ala His Ala Met Phe Ser Ala Glu Gly Leu		
645	650	655
Pro Leu Gly Ser Asp Ser Leu Glu Tyr Ala Trp Leu Ile Asp Val Gln		
660	665	670
Ala Gly Ser Leu Thr Ala Lys Val Thr Ala Pro Gln Leu Ala Cys Leu		
675	680	685
Leu Glu Trp Gly Gln Thr Phe Val Phe His Val Val Cys Arg Glu Tyr		
690	695	700
Glu Leu Glu Arg Pro Lys Ser Val Ile Ile Cys Gln His Gly Ile Asp		
705	710	715
Arg Arg Phe Cys Glu Ser Lys Leu Ser Cys Ile Pro Gly Pro Cys Pro		
725	730	735
Thr Ser Asp Asp Leu Lys Tyr Thr Met Ile Arg Leu Ala Val Asp Gly		
740	745	750
Ala Asp Ile Tyr Ile Val Glu His Gly Cys Ala Thr Asn Ile Lys Met		
755	760	765
Gly Ala Ile Arg Val Ala Asn Cys Asn Leu His Asn Gln Ser Val Gly		
770	775	780

Glu Gly Ile Ser Ala Ala Ile Gln Asp Phe Gln Val Arg Gln Tyr Ile			
785	790	795	800
Glu Gln Leu Asn Asn Cys Arg Ile Gly Leu Gln Pro Ala Val Leu Arg			
	805	810	815
Arg Ala Tyr Trp Leu Glu Ala Gly Ser Ala Asn Leu Gly Leu Ile Thr			
	820	825	830
Val Asp Ile Ala Leu Ala Ala Asp His His Ser Lys His Glu Ala Gln			
	835	840	845
Arg His Phe Leu Glu Thr His Asp Ala Arg Thr Lys Arg Leu Trp Phe			
	850	855	860
Leu Trp Pro Asp Asp Ile Leu Lys Asn Lys Arg Cys Arg Asn Lys Cys			
865	870	875	880
Gly Cys Leu Gly Gly Cys Arg Phe Phe Gly Gly Thr Val Thr Gly Leu			
	885	890	895
Asp Phe Phe Lys Leu Glu Glu Leu Thr Pro Ser Ser Ser Ser Ala Phe			
	900	905	910
Ser Ser Thr Ser Ala Glu Ser Asp Met Tyr Tyr Gly Gln Ser Leu Leu			
	915	920	925
Gln Pro Gly Glu Trp Ile Ile Thr Lys Glu Ile Pro Lys Ile Ile Asp			
	930	935	940
Gly Asn Val Asn Gly Met Lys Arg Lys Glu Trp Glu Asn Lys Ser Val			
945	950	955	960
Gly Ile Glu Val Glu Arg Lys Thr Gln His Leu Ser Leu Gln Val Pro			
	965	970	975
Leu Arg Ser His Ser Ser Ser Ser Ser Ser Ser Glu Glu Asn Ser Ser Ser			
	980	985	990
Ser Ala Ala Gln Pro Leu Leu Ala Gly Glu Lys Glu Ser Pro Ser Ser			
	995	1000	1005
Val Ala Asp Asp His Leu Val Gln Lys Glu Phe Leu His Gly Thr Lys			
	1010	1015	1020
Arg Asp Asp Gly Gln Ala Ser Ile Pro Thr Glu Ile Ser Gly Asn Ser			
1025	1030	1035	1040
Pro Val Ser Pro Asn Thr Gln Asp Lys Ser Val Gly Gln Ser Pro Leu			
	1045	1050	1055
Arg Ser Pro Leu Lys Arg Gln Ala Ser Val Cys Ser Thr Arg Leu Gly			
	1060	1065	1070

Ser Thr Lys Ser Leu Thr Ala Ala Phe Tyr Gly Asp Lys Gln Pro Val  
 1075 1080 1085  
 Thr Val Gly Val Gln Phe Ser Ser Asp Val Ser Arg Ser Asp Glu Asn  
 1090 1095 1100  
 Val Leu Asp Ser Pro Lys Gln Arg Arg Ser Phe Gly Ser Phe Pro Tyr  
 1105 1110 1115 1120  
 Thr Pro Ser Ala Asp Ser Asn Ser Phe His Gln Tyr Arg Ser Met Asp  
 1125 1130 1135  
 Ser Ser Met Ser Met Ala Asp Ser Glu Ala Tyr Phe Ser Ala Ala Glu  
 1140 1145 1150  
 Glu Phe Glu Pro Ile Ser Ser Asp Glu Gly Pro Gly Thr Tyr Pro Gly  
 1155 1160 1165

<210> 2685

<211> 778

<212> PRT

<213> Homo sapiens

<400> 2685

Met Ser Leu Thr Gln Lys Gly Asp Gly Glu Ser Gln Pro Gln Phe Pro  
 1 5 10 15  
 Ala Val Pro Leu Glu Pro Leu Pro Thr Thr Glu Gly Thr Pro Gly Leu  
 20 25 30  
 Pro Leu Gln Gln Ala Glu Glu Arg Tyr Glu Ser Gln Glu Pro Leu Ala  
 35 40 45  
 Gly Gln Glu Ser Pro Leu Pro Leu Ala Thr Arg Glu Ala Ala Leu Pro  
 50 55 60  
 Ile Leu Glu Pro Val Leu Gly Gln Glu Gln Pro Ala Ala Pro Asp Gln  
 65 70 75 80  
 Pro Cys Val Leu Phe Ala Asp Ala Pro Glu Pro Gly Gln Ala Leu Pro  
 85 90 95  
 Val Glu Glu Glu Ala Val Thr Leu Ala Arg Ala Glu Thr Thr Gln Ala  
 100 105 110  
 Arg Thr Glu Ala Gln Asp Leu Cys Arg Ala Ser Pro Glu Pro Pro Gly  
 115 120 125

Pro Glu Ser Ser Ser Arg Trp Leu Asp Asp Leu Leu Ala Ser Pro Pro  
 130 135 140  
 Pro Ser Gly Gly Gly Ala Arg Arg Gly Ala Gly Ala Glu Leu Lys Asp  
 145 150 155 160  
 Thr Gln Ser Pro Ser Thr Cys Ser Glu Gly Leu Leu Gly Trp Ser Gln  
 165 170 175  
 Lys Asp Leu Gln Ser Glu Phe Gly Ile Thr Gly Asp Pro Gln Pro Ser  
 180 185 190  
 Ser Phe Ser Pro Ser Ser Trp Cys Gln Gly Ala Ser Gln Asp Tyr Gly  
 195 200 205  
 Leu Gly Gly Ala Ser Pro Arg Gly Asp Pro Gly Leu Gly Glu Arg Asp  
 210 215 220  
 Trp Thr Ser Lys Tyr Gly Gln Gly Ala Gly Glu Gly Ser Thr Arg Glu  
 225 230 235 240  
 Trp Ala Ser Arg Cys Gly Ile Gly Gln Glu Glu Met Glu Ala Ser Ser  
 245 250 255  
 Ser Gln Asp Gln Ser Lys Val Ser Ala Pro Gly Val Leu Thr Ala Gln  
 260 265 270  
 Asp Arg Val Val Gly Lys Pro Ala Gln Leu Gly Thr Gln Arg Ser Gln  
 275 280 285  
 Glu Ala Asp Val Gln Asp Trp Glu Phe Arg Lys Arg Asp Ser Gln Gly  
 290 295 300  
 Thr Tyr Ser Ser Arg Asp Ala Glu Leu Gln Asp Gln Glu Phe Gly Lys  
 305 310 315 320  
 Arg Asp Ser Leu Gly Thr Tyr Ser Ser Arg Asp Val Ser Leu Gly Asp  
 325 330 335  
 Trp Glu Phe Gly Lys Arg Asp Ser Leu Gly Ala Tyr Ala Ser Gln Asp  
 340 345 350  
 Ala Asn Glu Gln Gly Gln Asp Leu Gly Lys Arg Asp His His Gly Arg  
 355 360 365  
 Tyr Ser Ser Gln Asp Ala Asp Glu Gln Asp Trp Glu Phe Gln Lys Arg  
 370 375 380  
 Asp Val Ser Leu Gly Thr Tyr Gly Ser Arg Ala Ala Glu Pro Gln Glu  
 385 390 395 400  
 Gln Glu Phe Gly Lys Ser Ala Trp Ile Arg Asp Tyr Ser Ser Gly Gly  
 405 410 415



Ser Ser Arg Thr Leu Asp Ala Gln Asp Arg Ser Phe Gly Thr Arg Pro  
 420 425 430  
 Leu Ser Ser Gly Phe Ser Pro Glu Glu Ala Gln Gln Gln Asp Glu Glu  
 435 440 445  
 Phe Glu Lys Lys Ile Pro Ser Val Glu Asp Ser Leu Gly Glu Gly Ser  
 450 455 460  
 Arg Asp Ala Gly Arg Pro Gly Glu Arg Gly Ser Gly Gly Leu Phe Ser  
 465 470 475 480  
 Pro Ser Thr Ala His Val Pro Asp Gly Ala Leu Gly Gln Arg Asp Gln  
 485 490 495  
 Ser Ser Trp Gln Asn Ser Asp Ala Ser Gln Glu Val Gly Gly His Gln  
 500 505 510  
 Glu Arg Gln Gln Ala Gly Ala Gln Gly Pro Gly Ser Ala Asp Leu Glu  
 515 520 525  
 Asp Gly Glu Met Gly Lys Arg Gly Trp Val Gly Glu Phe Ser Leu Ser  
 530 535 540  
 Val Gly Pro Gln Arg Glu Ala Ala Phe Ser Pro Gly Gln Gln Asp Trp  
 545 550 555 560  
 Ser Arg Asp Phe Cys Ile Glu Ala Ser Glu Arg Ser Tyr Gln Phe Gly  
 565 570 575  
 Ile Ile Gly Asn Asp Arg Val Ser Gly Ala Gly Phe Ser Pro Ser Ser  
 580 585 590  
 Lys Met Glu Gly Gly His Phe Val Pro Pro Gly Lys Thr Thr Ala Gly  
 595 600 605  
 Ser Val Asp Trp Thr Asp Gln Leu Gly Leu Arg Asn Leu Glu Val Ser  
 610 615 620  
 Ser Cys Val Gly Ser Gly Gly Ser Ser Glu Ala Arg Glu Ser Ala Val  
 625 630 635 640  
 Gly Gln Met Gly Trp Ser Gly Gly Leu Ser Leu Arg Asp Met Asn Leu  
 645 650 655  
 Thr Gly Cys Leu Glu Ser Gly Gly Ser Glu Glu Pro Gly Gly Ile Gly  
 660 665 670  
 Val Gly Glu Lys Asp Trp Thr Ser Asp Val Asn Val Lys Ser Lys Asp  
 675 680 685  
 Leu Ala Glu Val Gly Glu Gly Gly Gly His Ser Gln Ala Arg Glu Ser  
 690 695 700

Gly Val Gly Gln Thr Asp Trp Ser Gly Val Glu Ala Gly Glu Phe Leu  
 705                      710                      715                      720  
 Lys Ser Arg Glu Arg Leu Gly Arg His Ile Tyr Ala Leu Cys Ile Thr  
                     725                      730                      735  
 Leu Arg Thr Pro Pro Thr Pro Ser Leu Pro Trp Ile Ser Ser Leu Val  
                     740                      745                      750  
 Val Glu Gly Phe Val Pro Ser Ser Pro Pro Ser Leu Ser Leu Ser Ala  
                     755                      760                      765  
 Ser Ser Ser Ser Leu Pro Trp Val Phe Phe  
                     770                      775

<210> 2686

<211> 1430

<212> PRT

<213> Homo sapiens

<400> 2686

Met Thr Ser Ala Ala Glu Ile Lys Lys Pro Pro Val Ala Pro Lys Pro  
 1                      5                      10                      15  
 Lys Phe Val Val Ala Asn Asn Lys Pro Ala Pro Pro Pro Ile Ala Pro  
                     20                      25                      30  
 Lys Pro Asp Ile Val Ile Ser Ser Val Pro Gln Ser Thr Lys Lys Met  
                     35                      40                      45  
 Lys Pro Ala Ile Ala Pro Lys Pro Lys Val Leu Lys Thr Ser Pro Val  
                     50                      55                      60  
 Arg Glu Ile Gly Gln Ser Pro Ser Arg Lys Ile Met Leu Asn Leu Glu  
 65                      70                      75                      80  
 Gly His Lys Gln Glu Leu Ala Glu Ser Thr Asp Asn Phe Asn Cys Lys  
                     85                      90                      95  
 Tyr Glu Gly Asn Gln Ser Asn Asp Tyr Ile Ser Pro Met Cys Ser Cys  
                     100                      105                      110  
 Ser Ser Glu Cys Ile His Lys Leu Gly His Arg Glu Asn Leu Cys Val  
                     115                      120                      125  
 Lys Gln Leu Val Leu Glu Pro Leu Glu Met Asn Glu Asn Leu Glu Asn  
                     130                      135                      140

Ser Lys Ile Asp Glu Thr Leu Thr Ile Lys Thr Arg Ser Lys Cys Asp  
 145 150 155 160  
 Leu Tyr Gly Glu Lys Ala Lys Asn Gln Gly Gly Val Val Leu Lys Ala  
 165 170 175  
 Ser Val Leu Glu Glu Glu Leu Lys Asp Ala Leu Ile His Gln Met Pro  
 180 185 190  
 Pro Phe Ile Ser Ala Gln Lys His Arg Pro Thr Asp Ser Pro Glu Met  
 195 200 205  
 Asn Gly Gly Cys Asn Ser Asn Gly Gln Phe Arg Ile Glu Phe Ala Asp  
 210 215 220  
 Leu Ser Pro Ser Pro Ser Ser Phe Glu Lys Val Pro Asp His His Ser  
 225 230 235 240  
 Cys His Leu Gln Leu Pro Ser Asp Glu Cys Glu His Phe Glu Thr Cys  
 245 250 255  
 Gln Asp Asp Ser Glu Lys Ser Asn Asn Cys Phe Gln Ser Ser Glu Leu  
 260 265 270  
 Glu Ala Leu Glu Asn Gly Lys Arg Ser Thr Leu Ile Ser Ser Asp Gly  
 275 280 285  
 Val Ser Lys Lys Ser Glu Val Lys Asp Leu Gly Pro Leu Glu Ile His  
 290 295 300  
 Leu Val Pro Tyr Thr Pro Lys Phe Pro Thr Pro Lys Pro Arg Lys Thr  
 305 310 315 320  
 Arg Thr Ala Arg Leu Leu Arg Gln Lys Cys Val Asp Thr Pro Ser Glu  
 325 330 335  
 Ser Thr Glu Glu Pro Gly Asn Ser Asp Ser Ser Ser Ser Cys Leu Thr  
 340 345 350  
 Glu Asn Ser Leu Lys Ile Asn Lys Ile Ser Val Leu His Gln Asn Val  
 355 360 365  
 Leu Cys Lys Gln Glu Gln Val Asp Lys Met Lys Leu Gly Asn Lys Ser  
 370 375 380  
 Glu Leu Asn Met Glu Ser Asn Ser Asp Ala Gln Asp Leu Val Asn Ser  
 385 390 395 400  
 Gln Lys Ala Met Cys Asn Glu Thr Thr Ser Phe Glu Lys Met Ala Pro  
 405 410 415  
 Ser Phe Asp Lys Asp Ser Asn Leu Ser Ser Asp Ser Thr Thr Val Asp

420	425	430
Gly Ser Ser Met Ser Leu Ala Val Asp Glu Gly Thr Gly Phe Ile Arg		
435	440	445
Cys Thr Val Ser Met Ser Leu Pro Lys Gln Leu Lys Leu Thr Cys Asn		
450	455	460
Glu His Leu Gln Ser Gly Arg Asn Leu Gly Val Ser Ala Pro Gln Met		
465	470	475
Gln Lys Glu Ser Val Ile Lys Glu Glu Asn Ser Leu Arg Ile Val Pro		
485	490	495
Lys Lys Pro Gln Arg His Ser Leu Pro Ala Thr Gly Val Leu Lys Lys		
500	505	510
Ala Ala Ser Glu Glu Leu Leu Glu Lys Ser Ser Tyr Pro Ser Ser Glu		
515	520	525
Glu Lys Ser Ser Glu Lys Ser Leu Glu Arg Asn His Leu Gln His Leu		
530	535	540
Cys Ala Gln Asn Arg Gly Val Ser Ser Ser Phe Asp Met Pro Lys Arg		
545	550	555
Ala Ser Glu Lys Pro Val Trp Lys Leu Pro His Pro Ile Leu Pro Phe		
565	570	575
Ser Gly Asn Pro Glu Phe Leu Lys Ser Val Thr Val Ser Ser Asn Ser		
580	585	590
Glu Pro Ser Thr Ala Leu Thr Lys Pro Arg Ala Lys Ser Leu Ser Ala		
595	600	605
Met Asp Val Glu Lys Cys Thr Lys Pro Cys Lys Asp Ser Thr Lys Lys		
610	615	620
Asn Ser Phe Lys Lys Leu Leu Ser Met Lys Leu Ser Ile Cys Phe Met		
625	630	635
Lys Ser Asp Phe Gln Lys Phe Trp Ser Lys Ser Ser Gln Leu Gly Asp		
645	650	655
Thr Thr Thr Gly His Leu Ser Ser Gly Glu Gln Lys Gly Ile Glu Ser		
660	665	670
Asp Trp Gln Gly Leu Leu Val Gly Glu Glu Lys Arg Ser Lys Pro Ile		
675	680	685
Lys Ala Tyr Ser Thr Glu Asn Tyr Ser Leu Glu Ser Gln Lys Lys Arg		
690	695	700
Lys Lys Ser Arg Gly Gln Thr Ser Ala Ala Asn Gly Leu Arg Ala Glu		

705	710	715	720
Ser Leu Asp Asp Gln Met Leu Ser Arg Glu Ser Ser Ser Gln Ala Pro			
725	730	735	
Tyr Lys Ser Val Thr Ser Leu Cys Ala Pro Glu Tyr Glu Asn Ile Arg			
740	745	750	
His Tyr Glu Glu Ile Pro Glu Tyr Glu Asn Leu Pro Phe Ile Met Ala			
755	760	765	
Ile Arg Lys Thr Gln Glu Leu Glu Trp Gln Asn Ser Ser Ser Met Glu			
770	775	780	
Asp Ala Asp Ala Asn Val Tyr Glu Val Glu Glu Pro Tyr Glu Ala Pro			
785	790	795	800
Asp Gly Gln Leu Gln Leu Gly Pro Arg His Gln His Ser Ser Ser Gly			
805	810	815	
Ala Ser Gln Glu Glu Gln Asn Asp Leu Gly Leu Gly Asp Leu Pro Ser			
820	825	830	
Asp Glu Glu Glu Ile Ile Asn Ser Ser Asp Glu Asp Asp Val Ser Ser			
835	840	845	
Glu Ser Ser Lys Gly Glu Pro Asp Pro Leu Glu Asp Lys Gln Asp Glu			
850	855	860	
Asp Asn Gly Met Lys Ser Lys Val His His Ile Ala Lys Glu Ile Met			
865	870	875	880
Ser Ser Glu Lys Val Phe Val Asp Val Leu Lys Leu Leu His Ile Asp			
885	890	895	
Phe Arg Asp Ala Val Ala His Ala Ser Arg Gln Leu Gly Lys Pro Val			
900	905	910	
Ile Glu Asp Arg Ile Leu Asn Gln Ile Leu Tyr Tyr Leu Pro Gln Leu			
915	920	925	
Tyr Glu Leu Asn Arg Asp Leu Leu Lys Glu Leu Glu Glu Arg Met Leu			
930	935	940	
His Trp Thr Glu His Gln Arg Ile Ala Asp Ile Phe Val Lys Lys Gly			
945	950	955	960
Pro Tyr Leu Lys Met Tyr Ser Thr Tyr Ile Lys Glu Phe Asp Lys Asn			
965	970	975	
Ile Ala Leu Leu Asp Glu Gln Cys Lys Lys Asn Pro Gly Phe Ala Ala			
980	985	990	
Val Val Arg Glu Phe Glu Met Ser Pro Arg Cys Ala Asn Leu Ala Leu			

995	1000	1005
Lys His Tyr Leu Leu Lys Pro Val Gln Arg Ile Pro Gln Tyr Arg Leu		
1010	1015	1020
Leu Leu Thr Asp Tyr Leu Lys Asn Leu Ile Glu Asp Ala Gly Asp Tyr		
1025	1030	1035
Arg Asp Thr Gln Asp Ala Leu Ala Val Val Ile Glu Val Ala Asn His		
1045	1050	1055
Ala Asn Asp Thr Met Lys Gln Gly Asp Asn Phe Gln Lys Leu Met Gln		
1060	1065	1070
Ile Gln Tyr Ser Leu Asn Gly His His Glu Ile Val Gln Pro Gly Arg		
1075	1080	1085
Val Phe Leu Lys Glu Gly Ile Leu Met Lys Leu Ser Arg Lys Val Met		
1090	1095	1100
Gln Pro Arg Met Phe Phe Leu Phe Asn Asp Ala Leu Leu Tyr Thr Thr		
1105	1110	1115
Pro Val Gln Ser Gly Met Tyr Lys Leu Asn Asn Met Leu Ser Leu Ala		
1125	1130	1135
Gly Met Lys Val Arg Lys Pro Thr Gln Glu Ala Tyr Gln Asn Glu Leu		
1140	1145	1150
Lys Ile Glu Ser Val Glu Arg Ser Phe Ile Leu Ser Ala Ser Ser Ala		
1155	1160	1165
Thr Glu Arg Asp Glu Trp Leu Glu Ala Ile Ser Arg Ala Ile Glu Glu		
1170	1175	1180
Tyr Ala Lys Lys Arg Ile Thr Phe Cys Pro Ser Arg Ser Leu Asp Glu		
1185	1190	1195
Ala Asp Ser Glu Asn Lys Glu Glu Val Ser Pro Leu Gly Ser Lys Ala		
1205	1210	1215
Pro Ile Trp Ile Pro Asp Thr Arg Ala Thr Met Cys Met Ile Cys Thr		
1220	1225	1230
Ser Glu Phe Thr Leu Thr Trp Arg Arg His His Cys Arg Ala Cys Gly		
1235	1240	1245
Lys Ile Val Cys Gln Ala Cys Ser Ser Asn Lys Tyr Gly Leu Asp Tyr		
1250	1255	1260
Leu Lys Asn Gln Pro Ala Arg Val Cys Glu His Cys Phe Gln Glu Leu		
1265	1270	1275
Gln Lys Leu Asp His Gln His Ser Pro Arg Ile Gly Ser Pro Gly Asn		

	1285	1290	1295
His Lys Ser Pro Ser Ser Ala Leu Ser Ser Val Leu His Ser Ile Pro			
1300	1305	1310	
Ser Gly Arg Lys Gln Lys Lys Ile Pro Ala Ala Leu Lys Glu Val Ser			
1315	1320	1325	
Ala Asn Thr Glu Asp Ser Ser Met Ser Gly Tyr Leu Tyr Arg Ser Lys			
1330	1335	1340	
Gly Asn Lys Lys Pro Trp Lys His Phe Trp Phe Val Ile Lys Asn Lys			
1345	1350	1355	1360
Val Leu Tyr Thr Tyr Ala Ala Ser Glu Asp Val Ala Ala Leu Glu Ser			
1365	1370	1375	
Gln Pro Leu Leu Gly Phe Thr Val Ile Gln Val Lys Asp Glu Asn Ser			
1380	1385	1390	
Glu Ser Lys Val Phe Gln Leu Leu His Lys Asn Met Leu Phe Tyr Val			
1395	1400	1405	
Phe Lys Ala Glu Asp Ala His Ser Ala Gln Lys Trp Ile Glu Ala Phe			
1410	1415	1420	
Gln Glu Gly Thr Ile Leu			
1425	1430		

&lt;210&gt; 2687

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2687

Met His Thr Ser Gln Leu Glu Leu Glu His Leu Phe Leu Ser Cys Ser
1 5 10 15
Arg Trp Pro Gly His Thr Val Leu Phe Pro Ala Pro Ser Phe Leu Phe
20 25 30
Ser Phe Gln Thr Ser Leu Pro Gln Met Phe Ala Ile Pro His Leu Ser
35 40 45
Leu Gln Ile Leu Pro Ile Leu Ser Phe His Thr Ser Pro Met Pro Leu
50 55 60
Lys Met Pro Phe Met Phe Leu Ser Leu Pro Arg Asp Thr Phe Leu Met

65                      70                      75                      80  
 Leu Glu Leu Val Leu Gly Thr Phe Thr Cys Asn Gly Ser Phe Phe Ile  
                          85                      90                      95  
 His Lys Ala Ser  
                          100

<210> 2688

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2688

Met Trp Lys Leu Pro Arg Leu Gly Ala Tyr Thr Phe Arg Ser Asn Ser  
 1                      5                      10                      15  
 Leu Ser Tyr Thr Leu Ala Pro Phe Ser Tyr Ser Trp Ser Gly Trp Asp  
                          20                      25                      30  
 Ala Gly His Gln Val Pro Arg Leu Tyr Thr Ala Gly Ser Pro Val Pro  
                          35                      40                      45  
 Cys Pro Arg Asn Arg Phe Ser Leu Leu Asp Leu Trp Ala Cys Asp Gly  
                          50                      55                      60  
 Arg Gly Tyr Arg Gln Asp Leu Cys His Ala Leu Lys Thr Phe Ser Pro  
 65                      70                      75                      80  
 Leu Ser Trp Leu Leu Leu Thr Ser Ala Asn Phe Cys Ser Trp Leu Glu  
                          85                      90                      95  
 Phe Leu Pro Arg Lys Trp Val Phe Leu Phe Tyr Ser Ile Ile Arg Leu  
                          100                      105                      110  
 Gln Ile Phe Gln Thr Phe Leu Leu Cys Phe Pro Phe Lys His Asn Phe  
                          115                      120                      125

<210> 2689

<211> 470

<212> PRT

<213> Homo sapiens



&lt;400&gt; 2689

Met Thr Pro Ser Leu Ser Val Cys Ser Ala Thr Asn Thr Arg Arg Cys  
 1 5 10 15  
 Pro Ser Leu Trp Ala Pro Ala Ala Val Pro Ala Asp Gly Ala Val Leu  
 20 25 30  
 Tyr Ser Leu Ile Cys Ala Ala Pro Ala Ala Cys Arg His Cys Ala Trp  
 35 40 45  
 His Arg Gly Cys Asn Arg Thr Gln Thr Asp Ala Cys Leu Pro Trp Pro  
 50 55 60  
 Gly Ser Cys Ser Ala Gly Gly Val Arg Gly Gln His Ala Val Glu Glu  
 65 70 75 80  
 Arg Thr Ala Asp Gly Val His Arg Gln Ala Val Val Leu Tyr Gly Ala  
 85 90 95  
 Ile Arg Glu Ala Pro Gln Arg Arg Glu His Arg Pro Ala Gly Asn Glu  
 100 105 110  
 Val Trp Ser Gly Gln Gln Glu Gly Gln Ser Arg Gly Gln Trp Gly Thr  
 115 120 125  
 Gly Leu Val Cys Thr Gly Gln Lys Gly Lys Ala Gly Gly Arg Val Lys  
 130 135 140  
 Pro Gln Gly Val Gly Gly Ser Gly Glu Ala Leu Ala Gly Ser Cys Phe  
 145 150 155 160  
 Leu Gln Gln Ser Met Leu Trp Ala Tyr Pro Gly Pro Cys His Leu Gly  
 165 170 175  
 Ser Gln Cys Pro Tyr Leu Pro Trp Arg Asp Arg Pro His Gln Pro Ser  
 180 185 190  
 Val Pro Cys Ser Cys Ala Ile Ser Asn Val Lys Lys Val Ser Leu Glu  
 195 200 205  
 Leu Gly Gly Lys Ser Pro Leu Ile Ile Phe Ala Asp Cys Asp Leu Asn  
 210 215 220  
 Lys Ala Val Gln Met Gly Met Ser Ser Val Phe Phe Asn Lys Gly Glu  
 225 230 235 240  
 Asn Cys Ile Ala Ala Gly Arg Leu Phe Val Glu Asp Ser Ile His Asp  
 245 250 255  
 Glu Phe Val Arg Arg Val Val Glu Glu Val Arg Lys Met Lys Val Gly  
 260 265 270  
 Asn Pro Leu Asp Arg Asp Thr Asp His Gly Pro Gln Asn His His Ala

275	280	285
His Leu Val Lys Leu Met Glu Tyr Cys Gln His Gly Val Lys Glu Gly		
290	295	300
Ala Thr Leu Val Cys Gly Gly Asn Gln Val Pro Arg Pro Gly Phe Phe		
305	310	315
Phe Glu Pro Thr Val Phe Thr Asp Val Glu Asp His Met Phe Ile Ala		
325	330	335
Lys Glu Glu Ser Phe Gly Pro Val Met Ile Ile Ser Arg Phe Ala Asp		
340	345	350
Gly Asp Leu Asp Ala Val Leu Ser Arg Ala Asn Ala Thr Glu Phe Gly		
355	360	365
Leu Ala Ser Gly Val Phe Thr Arg Asp Ile Asn Lys Ala Leu Tyr Val		
370	375	380
Ser Asp Lys Leu Gln Ala Gly Thr Val Phe Val Asn Thr Tyr Asn Lys		
385	390	395
Thr Asp Val Ala Ala Pro Phe Gly Gly Phe Glu Gln Ser Gly Phe Gly		
405	410	415
Lys Asp Leu Gly Asn Leu Leu Leu Pro Val Gly Leu Leu Ser Phe Ile		
420	425	430
His Ser Thr Asn Ile Cys Ser Lys Pro Leu Arg Ala Arg Ser Tyr Leu		
435	440	445
Arg Cys Arg Asp Val Ala Leu Asn Met Met Ala Val Arg Val Arg Phe		
450	455	460
Leu Leu Gly Gly Asn Leu		
465	470	

&lt;210&gt; 2690

&lt;211&gt; 236

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2690

Met Pro Leu Trp Thr Ser Tyr Thr Val Ser Lys Gln Ala Glu Val Ser

1	5	10	15
Ser Val Pro Asp His Leu Thr Ser Cys Val Arg Pro Asp Val Arg Val			
20	25	30	
Ser Pro Ser Phe Ser Gln Asn Cys Leu Ala Tyr Lys Asn Asp Lys Gln			
35	40	45	
Met Ser Tyr Gly Phe Leu Phe Pro Pro Tyr Leu Ser Ser Ser Pro Glu			
50	55	60	
Ala Lys Tyr Asp Ala Phe Leu Val Thr Asn Met Val Pro Met Tyr Pro			
65	70	75	80
Ala Phe Lys Arg Val Trp Asn Tyr Phe Gln Arg Val Leu Val Lys Lys			
85	90	95	
Tyr Ala Ser Glu Arg Asn Gly Val Asn Val Ile Ser Gly Pro Ile Phe			
100	105	110	
Asp Tyr Asp Tyr Asp Gly Leu His Val Thr Glu Asp Lys Ile Lys Gln			
115	120	125	
Tyr Val Glu Gly Ser Ser Ile Pro Val Pro Thr His Tyr Tyr Ser Ile			
130	135	140	
Ile Thr Ser Cys Leu Asp Phe Thr Gln Pro Ala Asp Lys Cys Asp Gly			
145	150	155	160
Pro Leu Ser Val Ser Ser Phe Ile Leu Pro His Arg Pro Asp Asn Glu			
165	170	175	
Glu Ser Cys Asn Ser Ser Glu Asp Glu Ser Lys Trp Val Glu Glu Leu			
180	185	190	
Met Lys Met His Thr Ala Arg Val Arg Asp Ile Glu His Leu Thr Ser			
195	200	205	
Leu Asp Phe Phe Arg Lys Thr Ser Arg Ser Tyr Pro Glu Ile Leu Thr			
210	215	220	
Leu Lys Thr Tyr Leu His Thr Tyr Glu Ser Glu Ile			
225	230	235	

&lt;210&gt; 2691

&lt;211&gt; 590

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2691

Met Val Ala Val Ser Ser Val Ser His Ala Glu Gly Asn Pro Thr Phe  
 1 5 10 15  
 Pro Glu Arg Lys Arg Asn Leu Glu Arg Pro Thr Pro Lys Tyr Thr Lys  
 20 25 30  
 Val Gly Glu Arg Leu Arg His Val Ile Pro Gly His Met Ala Cys Ser  
 35 40 45  
 Met Ala Cys Gly Gly Arg Ala Cys Lys Tyr Glu Asn Pro Ala Arg Trp  
 50 55 60  
 Ser Glu Gln Glu Gln Ala Ile Lys Gly Val Tyr Ser Ser Trp Val Thr  
 65 70 75 80  
 Asp Asn Ile Leu Ala Met Ala Arg Pro Ser Ser Glu Leu Leu Glu Lys  
 85 90 95  
 Tyr His Ile Ile Asp Gln Phe Leu Ser His Gly Ile Lys Thr Ile Ile  
 100 105 110  
 Asn Leu Gln Arg Pro Gly Glu His Ala Ser Cys Gly Asn Pro Leu Glu  
 115 120 125  
 Gln Glu Ser Gly Phe Thr Tyr Leu Pro Glu Ala Phe Met Glu Ala Gly  
 130 135 140  
 Ile Tyr Phe Tyr Asn Leu Gly Trp Lys Asp Tyr Gly Val Ala Ser Leu  
 145 150 155 160  
 Thr Thr Ile Leu Asp Met Val Lys Val Met Thr Phe Ala Leu Gln Glu  
 165 170 175  
 Gly Lys Val Ala Ile His Cys His Ala Gly Leu Gly Arg Thr Gly Val  
 180 185 190  
 Leu Ile Ala Cys Tyr Leu Val Phe Ala Thr Arg Met Thr Ala Asp Gln  
 195 200 205  
 Ala Ile Ile Phe Val Arg Ala Lys Arg Pro Asn Ser Ile Gln Thr Arg  
 210 215 220  
 Gly Gln Leu Leu Cys Val Arg Glu Phe Thr Gln Phe Leu Thr Pro Leu  
 225 230 235 240  
 Arg Asn Ile Phe Ser Cys Cys Asp Pro Lys Ala His Ala Val Thr Leu  
 245 250 255  
 Pro Gln Tyr Leu Ile Arg Gln Arg His Leu Leu His Gly Tyr Glu Ala  
 260 265 270  
 Arg Leu Leu Lys His Val Pro Lys Ile Ile His Leu Val Cys Lys Leu

275	280	285	
Leu Leu Asp Leu Ala Glu Asn Arg Pro Val Met Met Lys Asp Val Ser			
290	295	300	
Glu Gly Pro Gly Leu Ser Ala Glu Ile Glu Lys Thr Met Ser Glu Met			
305	310	315	320
Val Thr Met Gln Leu Asp Lys Glu Leu Leu Arg His Asp Ser Asp Val			
325	330	335	
Ser Asn Pro Pro Asn Pro Thr Ala Val Ala Ala Asp Phe Asp Asn Arg			
340	345	350	
Gly Met Ile Phe Ser Asn Glu Gln Gln Phe Asp Pro Leu Trp Lys Arg			
355	360	365	
Arg Asn Val Glu Cys Leu Gln Pro Leu Thr His Leu Lys Arg Arg Leu			
370	375	380	
Ser Tyr Ser Asp Ser Asp Leu Lys Arg Ala Glu Asn Leu Leu Glu Gln			
385	390	395	400
Gly Glu Thr Pro Gln Thr Val Pro Ala Gln Ile Leu Val Gly His Lys			
405	410	415	
Pro Arg Gln Gln Lys Leu Ile Ser His Cys Tyr Ile Pro Gln Ser Pro			
420	425	430	
Glu Pro Asp Leu His Lys Glu Ala Leu Val Arg Ser Thr Leu Ser Phe			
435	440	445	
Trp Ser Gln Ser Lys Phe Gly Gly Leu Glu Gly Leu Lys Asp Asn Gly			
450	455	460	
Ser Pro Ile Phe His Gly Arg Ile Ile Pro Lys Glu Ala Gln Gln Ser			
465	470	475	480
Gly Ala Phe Ser Ala Asp Val Ser Gly Ser His Ser Pro Gly Glu Pro			
485	490	495	
Val Ser Pro Ser Phe Ala Asn Val His Lys Asp Pro Asn Pro Ala His			
500	505	510	
Gln Gln Val Ser His Cys Gln Cys Lys Thr His Gly Val Gly Ser Pro			
515	520	525	
Gly Ser Val Arg Gln Asn Ser Arg Thr Pro Arg Ser Pro Leu Asp Cys			
530	535	540	
Gly Ser Ser Pro Lys Ala Gln Phe Leu Val Glu His Glu Thr Gln Asp			
545	550	555	560
Ser Lys Asp Leu Ser Glu Ala Ala Ser His Ser Ala Leu Gln Ser Glu			

565                      570                      575  
 Leu Ser Ala Glu Ala Arg Arg Ile Leu Ala Ala Lys Ala Leu  
 580                      585                      590

<210> 2692

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2692

Met Val Ile Cys His Ala Pro Leu Glu Val Cys Gly Pro Phe Phe Phe  
 1                      5                      10                      15  
 Phe Leu Phe Phe Phe Ser Phe Gly Gly Gly Gly Thr Glu Ser Arg Ser  
 20                      25                      30  
 Val Thr Gln Ala Gly Val Gln Trp His Val Leu Gly Ser Leu Gln Pro  
 35                      40                      45  
 Leu Pro Pro Gly Phe Lys Gln Phe Phe Cys Leu Ile Leu Leu Ser Ser  
 50                      55                      60  
 Trp Asp Tyr Arg Cys Met Pro Pro His Leu Ala Asn Phe Cys Ile Phe  
 65                      70                      75                      80  
 Ser Arg Asp Gly Val Ser Pro Tyr Trp Pro Asp Trp Ser Arg Asn Pro  
 85                      90                      95  
 Asp Leu Val Ile Cys Pro Pro Arg Pro Pro Lys Val Leu Gly Leu Gln  
 100                      105                      110  
 Val

<210> 2693

<211> 388

<212> PRT

<213> Homo sapiens

<400> 2693

Met Asp Thr Lys Arg Cys Phe Ala Asn Arg Phe Asp Asp Tyr Gln Gly

1	5	10	15												
Ser	Leu	Leu	Ala	Gly	Gln	Cys	Glu	Glu	Ala	Val	Ala	Pro	Leu	Val	Thr
	20		25		30										
Ala	Thr	Ile	Glu	Arg	Ile	Leu	Gln	Glu	Leu	Pro	Pro	Leu	Gly	Gly	Gly
	35		40		45										
Ala	Glu	Ala	Arg	Gly	Ala	Thr	Ala	Gly	Ala	Ser	Ala	Cys	Gln	Gly	Gly
	50		55		60										
Leu	Tyr	Gly	Gly	Val	Ala	Gly	Val	Ala	Tyr	Met	Leu	Tyr	His	Val	Ser
65			70		75										80
Gln	Ser	Pro	Leu	Phe	Ala	Thr	Ala	Arg	Glu	Arg	Tyr	Leu	Arg	Ser	Ala
			85		90										95
Lys	Arg	Leu	Ile	Asp	Ala	Cys	Ala	Arg	Ala	Glu	Glu	Trp	Gly	Glu	Pro
	100		105		110										
Asp	Ala	Asp	Thr	Arg	Ala	Ala	Phe	Leu	Leu	Gly	Gly	Ala	Gly	Val	Tyr
	115		120		125										
Ala	Val	Ala	Thr	Leu	Val	Tyr	His	Ala	Leu	Gly	Arg	Ser	Asp	Tyr	Val
	130		135		140										
Gln	Pro	Leu	Gly	Lys	Phe	Arg	Ala	Leu	Cys	Ala	Val	Cys	Ala	Pro	Val
145			150		155										160
Ser	Phe	Leu	Glu	Cys	Gly	Ser	Asp	Glu	Leu	Phe	Val	Gly	Arg	Ala	Gly
			165		170										175
Tyr	Leu	Cys	Ala	Ala	Leu	Val	Leu	Lys	Gln	Lys	Leu	Ala	Gln	Glu	Val
	180		185		190										
Leu	Thr	Pro	Ala	Gln	Ile	Lys	Ser	Ile	Cys	Gln	Ala	Ile	Leu	Asp	Ser
	195		200		205										
Gly	Lys	Gln	Tyr	Ala	Ile	Lys	Lys	Arg	Lys	Pro	Phe	Pro	Leu	Met	Tyr
	210		215		220										
Ser	Tyr	Tyr	Gly	Thr	Glu	Tyr	Leu	Gly	Ala	Ala	His	Gly	Leu	Ser	Ser
225			230		235										240
Ile	Leu	Gln	Met	Leu	Leu	Ser	Tyr	His	Glu	His	Leu	Lys	Pro	Ser	Asp
			245		250										255
Arg	Glu	Leu	Val	Trp	Gln	Ser	Val	Asp	Phe	Leu	Met	Glu	Gln	Glu	Gln
	260		265		270										
Asn	Cys	Asn	Trp	Pro	Pro	Glu	Leu	Gly	Glu	Thr	Ile	Glu	Arg	Glu	Asn
	275		280		285										
Glu	Leu	Val	His	Trp	Cys	His	Gly	Ala	Pro	Gly	Ile	Ala	Tyr	Leu	Phe

290                      295                      300  
 Ala Lys Ala Tyr Leu Val Ser Lys Lys Pro Gln Tyr Leu Asp Thr Cys  
 305                      310                      315                      320  
 Ile Arg Cys Gly Glu Leu Thr Trp Gln Lys Gly Leu Leu Lys Lys Gly  
                     325                      330                      335  
 Pro Gly Ile Cys His Gly Val Ala Gly Ser Ala Tyr Val Phe Leu Leu  
                     340                      345                      350  
 Leu Tyr Arg Leu Thr Gly Asn Ser Lys Tyr Ile Tyr Arg Ala Gln Ser  
                     355                      360                      365  
 Ser Phe Pro Val Asn Leu Ile Lys Met Glu His Leu Leu Tyr Thr Arg  
                     370                      375                      380  
 Gln His Cys Phe  
 385

<210> 2694

<211> 240

<212> PRT

<213> Homo sapiens

<400> 2694

Met Arg Ile Lys Val Gln Ala Thr Glu Gln Met Ala Tyr Cys Pro Ile  
   1                      5                      10                      15  
 Gln Cys Glu Lys Leu Cys Tyr Leu Pro Gly Asn Ser Lys Cys Ser Ser  
                     20                      25                      30  
 Val Tyr Glu Asn Cys Leu Glu Gln Ser Arg Ala Ile Gly Asn Val His  
                     35                      40                      45  
 Pro Arg Gly Val Gln Ser Gln Arg Asp Thr Ser Leu Leu Lys His Thr  
                     50                      55                      60  
 Cys Arg Val Asp Leu Phe Asp Asp Pro Cys Tyr Ile Asn Thr Gln Ala  
   65                      70                      75                      80  
 Leu Gln Ser Thr Pro Gly Ser Ala Gly Asn Gln Arg Ser Ala Gln Pro  
                     85                      90                      95  
 Leu Gly Ser Pro Trp His Cys Gly Lys Ala Pro Glu Thr Val Gln Pro  
                     100                      105                      110  
 Gly Ala Thr Ala Gln Pro Ala Ser Ser His Ser Leu Pro His Ile Lys



115	120	125	
Gln Gln Leu Trp Ser Glu Glu Cys Tyr His Gly Lys Leu Ser Arg Lys			
130	135	140	
Ala Ala Glu Ser Leu Leu Val Lys Asp Gly Asp Phe Leu Val Arg Glu			
145	150	155	160
Ser Ala Thr Ser Pro Gly Gln Tyr Val Leu Ser Gly Leu Gln Gly Gly			
	165	170	175
Gln Ala Lys His Leu Leu Leu Val Asp Pro Glu Gly Lys Val Arg Thr			
	180	185	190
Lys Asp His Val Phe Asp Asn Val Gly His Leu Ile Arg Tyr His Met			
	195	200	205
Asp Asn Ser Leu Pro Ile Ile Ser Ser Gly Ser Glu Val Ser Leu Lys			
	210	215	220
Gln Pro Val Arg Lys Asp Asn Asn Pro Ala Leu Leu His Ser Asn Lys			
225	230	235	240

&lt;210&gt; 2695

&lt;211&gt; 165

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2695

Met Asn His Pro Phe Gln Gly Ser His Arg Gln Thr Pro Asp Phe Gly			
1	5	10	15
Glu His Leu Ala Leu Leu Pro Pro Pro Pro Ser Ser Leu Pro Pro Pro			
	20	25	30
Met Pro Phe Pro Tyr Pro Leu Pro Gln Pro Ser Pro Pro Pro Leu Phe			
	35	40	45
Pro Pro Leu Pro Gln Asp Thr Pro Phe Phe Pro Gly Gln Pro Phe Pro			
	50	55	60
Pro His Glu Phe Phe Asn Tyr Asn Pro Val Glu Asp Phe Ser Met Pro			
	65	70	75
Pro His Leu Gly Cys Gly Pro Gly Val Asn Phe Val Pro Gly Pro Leu			
	85	90	95
Pro Pro Pro Ile Pro Gly Pro Asn Pro His Gly Gln His Trp Gly Pro			

100 105 110  
 Val Val His Arg Gly Met Pro Arg Tyr Val Pro Asn Ser Pro Tyr His  
 115 120 125  
 Val Arg Arg Met Gly Gly Pro Cys Arg Gln Arg Leu Arg His Ser Glu  
 130 135 140  
 Arg Leu Ile His Thr Tyr Lys Leu Asp Arg Arg Pro Pro Ala His Ser  
 145 150 155 160  
 Gly Thr Trp Pro Gly  
 165

<210> 2696

<211> 333

<212> PRT

<213> Homo sapiens

<400> 2696

Met Thr Leu Glu Leu Gly Gly Lys Val Thr Ile Glu Cys Ala Lys Asn  
 1 5 10 15  
 Asn Phe Gln Ala Gln Leu Glu Phe Lys Leu Lys Pro Phe Phe Gly Gly  
 20 25 30  
 Ser Thr Ser Ile Asn Gln Ile Ser Gly Lys Ile Thr Ser Gly Glu Glu  
 35 40 45  
 Val Leu Ala Ser Leu Ser Gly His Trp Asp Arg Asp Val Phe Ile Lys  
 50 55 60  
 Glu Glu Gly Ser Gly Ser Ser Ala Leu Phe Trp Thr Pro Ser Gly Glu  
 65 70 75 80  
 Val Arg Arg Gln Arg Leu Arg Gln His Thr Val Pro Leu Glu Glu Gln  
 85 90 95  
 Thr Glu Leu Glu Ser Glu Arg Leu Trp Gln His Val Thr Arg Ala Ile  
 100 105 110  
 Ser Lys Gly Asp Gln His Arg Ala Thr Gln Glu Lys Phe Ala Leu Glu  
 115 120 125  
 Glu Ala Gln Arg Gln Arg Ala Arg Glu Arg Gln Glu Ser Leu Met Pro  
 130 135 140  
 Trp Lys Pro Gln Leu Phe His Leu Asp Pro Ile Thr Gln Glu Trp His

145                      150                      155                      160  
 Tyr Arg Tyr Glu Asp His Ser Pro Trp Asp Pro Leu Lys Asp Ile Ala  
                          165                      170                      175  
 Gln Phe Glu Gln Asp Gly Ile Leu Arg Thr Leu Gln Gln Glu Ala Val  
                          180                      185                      190  
 Ala Arg Gln Thr Thr Phe Leu Gly Ser Pro Gly Pro Arg His Glu Arg  
                          195                      200                      205  
 Ser Gly Pro Asp Gln Arg Leu Arg Lys Ala Ser Asp Gln Pro Ser Gly  
                          210                      215                      220  
 His Ser Gln Thr Thr Glu Ser Ser Gly Ser Thr Pro Glu Ser Cys Pro  
 225                      230                      235                      240  
 Glu Leu Ser Asp Glu Glu Gln Asp Gly Asp Phe Val Pro Gly Gly Glu  
                          245                      250                      255  
 Ser Pro Cys Pro Arg Cys Arg Lys Glu Ala Arg Arg Leu Gln Ala Leu  
                          260                      265                      270  
 His Glu Ala Ile Leu Ser Ile Arg Glu Ala Gln Gln Glu Leu His Arg  
                          275                      280                      285  
 His Leu Ser Ala Met Leu Ser Ser Thr Ala Arg Ala Ala Gln Ala Pro  
                          290                      295                      300  
 Thr Pro Gly Leu Leu Gln Ser Pro Arg Ser Trp Phe Leu Leu Cys Val  
 305                      310                      315                      320  
 Phe Leu Ala Cys Gln Leu Phe Ile Asn His Ile Leu Lys  
                          325                      330

<210> 2697

<211> 504

<212> PRT

<213> Homo sapiens

<400> 2697

Met Ser Ala Leu Leu Ile Pro Glu Ser Glu Glu Gln Gly Asn Lys Glu  
   1                      5                      10                      15  
 Asn Ile His Gln Ile Lys Gln Thr Val Pro Ile His Ala Ala Asn Leu  
                          20                      25                      30  
 His Ile Met His Pro His Pro Pro Gln Glu Pro Ser Ala Asp Lys Asn

35	40	45
Asn Asn Arg Arg Arg Leu Arg Leu Lys Ser Thr Ser Arg Glu Arg Thr		
50	55	60
Glu Thr Pro Ser Gly Ser Ser Ser Gly Asn Asn Arg Ile Glu Asp Lys		
65	70	75
Ala Ser Thr Ile Leu Thr Thr Val Ser Gln Gln Gly Ala Glu Leu Leu		
85	90	95
Asn Ser Gly Thr Leu Gly Pro Gln Ser Pro Asp Gln Ser Asp Glu Trp		
100	105	110
Ile Phe Pro Glu Asn Ala Asp His Ile Ser Tyr Leu Ala Ser Ser Arg		
115	120	125
Gln Ser Leu Leu Leu Gly Asp Asp Ser Cys Asn Pro Ser His Leu Trp		
130	135	140
Leu Glu Ala Ser Lys Glu Ser Glu His Asp Gln Gln Ala Glu Glu Ser		
145	150	155
Gln Ser Val Pro Lys Asp Ile Phe Thr Phe Ser Ser Arg Pro Arg Ser		
165	170	175
Ala Pro His Gly Lys Thr Gln Thr Met Ser Pro Glu Glu Leu Ser Phe		
180	185	190
Ile Leu Asp Leu Lys Glu Asp Asn Ser Val Thr Ser Arg Asp Thr Gln		
195	200	205
Ser Glu Asp Asp Phe Tyr Gly Gly Asp Ser Ser Glu Glu Gly Asn His		
210	215	220
Ser Ile Gln Gly Ser Arg Gly Pro Thr Thr Gly Pro Ser Glu Leu Thr		
225	230	235
Gln Leu Thr Leu Glu Ser Leu Leu Gly Lys Ala Ala Lys Arg Thr Ser		
245	250	255
Lys Glu Tyr Leu Arg Ser Ala Tyr Thr Glu Ala Gly Ala Thr Glu Ser		
260	265	270
Gln Asp Ser Ser Met Glu Gln Ile Asp Arg Asn Asn Phe Glu Met Ser		
275	280	285
Leu Leu Pro Thr Thr Cys Leu Ser Pro Thr Gly Arg Arg Cys Gly Ser		
290	295	300
Cys Gln Lys Thr Pro Glu Pro Val Ile Lys Ala Lys Asp Leu Ser Ala		
305	310	315
Gln Gln Val Pro Ala Ser Leu Asn Lys Thr Ser Leu Lys Glu Ile Ser		

325 330 335  
 Gly Glu Arg Leu Ser Ser Ile Pro Glu Ala Ser Glu Tyr Asp Trp Arg  
 340 345 350  
 Asn Tyr Gln Pro Ser Gln Met Ser Glu Ser Glu Leu Gln Met Leu Ala  
 355 360 365  
 Ser Leu Arg Trp Gln Gln Asn Glu Glu Leu Glu Asp Ala Gly Thr Ser  
 370 375 380  
 His Gly Leu Ser Ala Ser Gln Val Asp Asn Cys Asn Val Ser Ile Ser  
 385 390 395 400  
 Thr Ser Ser Asp Asp Thr Thr Thr Trp Asn Ser Cys Leu Pro Pro Pro  
 405 410 415  
 Val Asn Gln Gly Arg His Tyr Gln Lys Glu Met Asn Pro Pro Ser Pro  
 420 425 430  
 Ser Asn Pro Arg Asp Trp Leu Asn Met Leu Ser Pro Pro Ile Val Pro  
 435 440 445  
 Pro Ser Gln Gln Pro Ala Glu Gln Arg Pro Asp Ser Cys Glu Ser Leu  
 450 455 460  
 Ser Val Gln Gly Glu Glu Asp Leu Ser Val Glu Glu Asp Glu Glu Val  
 465 470 475 480  
 Leu Thr Leu Leu Tyr Asp Pro Cys Leu Asn Cys Tyr Phe Asp Pro Gln  
 485 490 495  
 Thr Gly Lys Tyr Tyr Glu Leu Val  
 500

<210> 2698

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2698

Met Leu Val Phe Thr Ser Pro Gln Ala Leu Phe Gly Phe Gln His Asp  
 1 5 10 15  
 Ala Ser Asn His Thr Ile Val Gly Leu Gly Pro Asn Pro Val Pro Glu  
 20 25 30  
 Met Lys Glu Thr Thr Leu Gln Ala Pro Gln Pro Pro Gln Ala Pro Gln

35                      40                      45  
 Pro Leu Gln Pro Arg Lys Lys Arg Val Arg Arg Thr Thr Gln Leu Arg  
 50                      55                      60  
 Arg Thr Thr Gly Ala Pro Asp Ile Thr Trp Gly Met Leu Lys Lys Thr  
 65                      70                      75                      80  
 Thr Gln Glu Ala Glu Arg Ile Leu Leu Arg Thr Gln Thr Pro Phe Thr  
 85                      90                      95  
 Pro Glu Asn Leu Phe Leu Ala Met Leu Ser Val Val His Cys Asn Ser  
 100                      105                      110  
 Arg Lys Asp Val Lys Pro Glu Asn Lys Gln  
 115                      120

<210> 2699

<211> 113

<212> PRT

<213> Homo sapiens

<400> 2699

Met Ile Ile Ile Leu Arg Leu Gly His Phe Val Phe Glu Cys Gly Ala  
 1                      5                      10                      15  
 Ala Glu Leu Ile Gln Lys Pro Phe Ala Ala Tyr Gln Asp Phe Leu Lys  
 20                      25                      30  
 Lys Phe Phe Cys Leu Cys Leu Pro Ser Gly Thr Leu Pro Trp Arg His  
 35                      40                      45  
 Arg Gly Pro Arg Ala Lys Ala Leu Pro Gly His Leu Gln Asn Thr Pro  
 50                      55                      60  
 Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Val Cys Thr  
 65                      70                      75                      80  
 Leu Gln Pro Pro Arg Trp Arg Gly Ser Val Trp Ile Thr Val Asn Ala  
 85                      90                      95  
 Leu Pro His Trp Ser Val Gly Asp Thr Val Thr Asn Pro Leu Lys Ser  
 100                      105                      110  
 Trp

&lt;210&gt; 2700

&lt;211&gt; 154

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2700

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Met Ala Ala Thr Thr Leu Ser Gly Leu Leu Gln Cys Asn Phe Leu Thr
  1              5              10              15
Met Asp Ser Pro Met Gln Ile His Phe Glu Gln Leu Cys Lys Thr Lys
              20              25              30
Leu Pro Lys Lys Arg Lys Arg Asp Pro Gly Ser Val Gly Asp Thr Ile
              35              40              45
Pro Ser Ala Glu Leu Val Lys Arg His Ala Gly Val Leu Gly Leu Gly
              50              55              60
Ala Cys Val Leu Ser Ser Pro Tyr Asp Val Pro Thr Trp Met Pro Gln
              65              70              75              80
Leu Leu Met Asn Leu Ser Ala His Leu Asn Asp Pro Gln Pro Ile Glu
              85              90              95
Met Thr Val Lys Lys Pro Tyr Pro Ile Ser Glu Gly Leu Thr Met Thr
              100             105             110
Thr Gly Arg Asn Ile Asn Ser Asn Ser Leu Met Thr Asn Cys Leu Phe
              115             120             125
Ser Pro Ile Phe Leu Cys His His Ala Ile Met His Arg Lys Val Ser
              130             135             140
Gln Gln Ser Ser Glu Phe Thr Leu Val Trp
145              150

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&lt;210&gt; 2701

&lt;211&gt; 404

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2701

Met Ile Thr Glu Ala Leu Ala Gln Gly Gly Met His Ile Arg Ala Arg  
 1 5 10 15  
 Phe Pro Pro Thr Thr Ala Val Ser Ala Ile Pro Ser Ser Ser Ile Pro  
 20 25 30  
 Leu Gly Arg Gln Pro Met Ala Gln Val Ser Gln Ser Ser Leu Pro Met  
 35 40 45  
 Leu Ser Ser Pro Ser Pro Gly Gln Gln Val Gln Thr Pro Gln Ser Met  
 50 55 60  
 Pro Pro Pro Pro Gln Pro Ser Pro Gln Pro Gly Gln Pro Ser Ser Gln  
 65 70 75 80  
 Pro Asn Ser Asn Val Ser Ser Gly Pro Ala Pro Ser Pro Ser Ser Phe  
 85 90 95  
 Leu Pro Ser Pro Ser Pro Gln Pro Ser Gln Ser Pro Val Thr Ala Arg  
 100 105 110  
 Thr Pro Gln Asn Phe Ser Val Pro Ser Pro Gly Pro Leu Asn Thr Pro  
 115 120 125  
 Val Asn Pro Ser Ser Val Met Ser Pro Ala Gly Ser Ser Gln Ala Glu  
 130 135 140  
 Glu Gln Gln Tyr Leu Asp Lys Leu Lys Gln Leu Ser Lys Tyr Ile Glu  
 145 150 155 160  
 Pro Leu Arg Arg Met Ile Asn Lys Ile Asp Lys Asn Glu Asp Arg Lys  
 165 170 175  
 Lys Asp Leu Ser Lys Met Lys Ser Leu Leu Asp Ile Leu Thr Asp Pro  
 180 185 190  
 Ser Lys Arg Cys Pro Leu Lys Thr Leu Gln Lys Cys Glu Ile Ala Leu  
 195 200 205  
 Glu Lys Leu Lys Asn Asp Met Ala Val Pro Thr Pro Pro Pro Pro  
 210 215 220  
 Val Pro Pro Thr Lys Gln Gln Tyr Leu Cys Gln Pro Leu Leu Asp Ala  
 225 230 235 240  
 Val Leu Ala Asn Ile Arg Ser Pro Val Phe Asn His Ser Leu Tyr Arg  
 245 250 255  
 Thr Phe Val Pro Ala Met Thr Ala Ile His Gly Pro Pro Ile Thr Ala  
 260 265 270  
 Pro Val Val Cys Thr Arg Lys Arg Arg Leu Glu Asp Asp Glu Arg Gln  
 275 280 285



Ser Ile Pro Ser Val Leu Gln Gly Glu Val Ala Arg Leu Asp Pro Lys  
 290 295 300  
 Phe Leu Val Asn Leu Asp Pro Ser His Cys Ser Asn Asn Gly Thr Val  
 305 310 315 320  
 His Leu Ile Cys Lys Leu Asp Asp Lys Asp Leu Pro Ser Val Pro Pro  
 325 330 335  
 Leu Glu Leu Ser Val Pro Ala Asp Tyr Pro Ala Gln Ser Pro Leu Trp  
 340 345 350  
 Ile Asp Arg Gln Trp Gln Tyr Asp Ala Asn Pro Phe Leu Gln Ser Val  
 355 360 365  
 His Arg Cys Met Thr Ser Arg Leu Leu Gln Leu Pro Asp Lys His Ser  
 370 375 380  
 Val Thr Ala Leu Leu Asn Thr Trp Ala Gln Ser Val His Gln Ala Cys  
 385 390 395 400  
 Leu Ser Ala Ala

<210> 2702

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2702

Met Thr Ser Lys Glu Ile Ile Leu Gly Leu Cys Leu Leu Ser Leu Val  
 1 5 10 15  
 Leu Ser Met Ile Leu Met Val Ile Ile Arg Tyr Ile Ser Arg Val Leu  
 20 25 30  
 Val Trp Ile Leu Thr Ile Leu Val Ile Leu Gly Ser Leu Gly Gly Thr  
 35 40 45  
 Gly Val Leu Trp Trp Leu Tyr Ala Lys Gln Arg Arg Ser Pro Lys Glu  
 50 55 60  
 Thr Val Thr Pro Glu Gln Leu Gln Ile Ala Glu Asp Asn Leu Arg Ala  
 65 70 75 80  
 Leu Leu Ile Tyr Ala Ile Ser Ala Thr Val Phe Thr Val Ile Leu Phe  
 85 90 95

Leu Ile Met Leu Val Met Arg Lys Arg Val Ala Leu Thr Ile Ala Leu			
100	105	110	
Phe His Val Ala Gly Lys Val Phe Ile His Leu Pro Leu Leu Val Phe			
115	120	125	
Gln Pro Phe Trp Thr Phe Phe Ala Leu Val Leu Phe Trp Val Tyr Trp			
130	135	140	
Ile Met Thr Leu Leu Phe Leu Gly Thr Thr Gly Ser Pro Val Gln Asn			
145	150	155	160
Glu Gln Gly Phe Val Glu Phe Lys Ile Ser Gly Pro Leu Gln Tyr Met			
165	170	175	
Trp Trp Tyr His Val Val Gly Leu Ile Trp Ile Ser Glu Phe Ile Leu			
180	185	190	
Ala Cys Gln Gln Met Thr Val Ala Gly Ala Val Val Thr Tyr Tyr Phe			
195	200	205	
Thr Arg Asp Lys Arg Asn Leu Pro Phe Thr Pro Ile Leu Ala Ser Val			
210	215	220	
Asn Arg Leu Ile Arg Tyr His Leu Gly Thr Val Ala Lys Gly Ser Phe			
225	230	235	240
Ile Ile Thr Leu Val Lys Ile Pro Arg Met Ile Leu Met Tyr Ile His			
245	250	255	
Ser Gln Leu Lys Gly Lys Glu Asn Ala Cys Ala Arg Cys Val Leu Lys			
260	265	270	
Ser Cys Ile Cys Cys Leu Trp Cys Leu Glu Lys Cys Leu Asn Tyr Leu			
275	280	285	
Asn Gln Asn Ala Tyr Thr Ala Thr Ala Ile Asn Ser Thr Asn Phe Cys			
290	295	300	
Thr Ser Ala Lys Asp Ala Phe Val Ile Leu Val Glu Asn Ala Leu Arg			
305	310	315	320
Val Ala Thr Ile Asn Thr Val Gly Asp Phe Met Leu Phe Leu Gly Lys			
325	330	335	
Val Leu Ile Val Cys Ser Thr Gly Leu Ala Gly Ile Met Leu Leu Asp			
340	345	350	
Tyr Gln Gln Asp Tyr Thr Val Trp Val Leu Pro Leu Ile Ile Val Cys			
355	360	365	
Leu Phe Ala Phe Leu Val Ala His Cys Phe Leu Ser Ile Tyr Glu Met			
370	375	380	

Val Val Asp Val Leu Phe Leu Cys Phe Ala Ile Asp Thr Lys Tyr Asn  
 385 390 395 400  
 Asp Gly Ser Pro Gly Arg Glu Phe Tyr Met Asp Lys Val Leu Met Glu  
 405 410 415  
 Phe Val Glu Asn Ser Arg Lys Ala Met Lys Glu Ala Gly Lys Gly Gly  
 420 425 430  
 Val Ala Asp Ser Arg Glu Leu Lys Pro Met Leu Lys Lys Arg  
 435 440 445

<210> 2703

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2703

Met Gln Ala Phe Pro Glu Gln Gln Lys Glu Ser Arg Ser Val Ala Arg  
 1 5 10 15  
 Leu Lys Cys Tyr Gly Val Ile Ser Ala His Cys Asn Leu Arg Phe Leu  
 20 25 30  
 Gly Ser Gly Asn Ser His Ala Ser Ala Ser Arg Val Ala Gly Ile Ala  
 35 40 45  
 Gly Thr Cys His His Ala Gln Leu Ile Phe Val Ile Leu Val Glu Met  
 50 55 60  
 Gly Phe His His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asp  
 65 70 75 80  
 Asn Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Val Ser  
 85 90 95  
 His Cys Ala Gln Pro Lys Lys Leu Ala Phe  
 100 105

<210> 2704

<211> 105

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2704

Met Asn His Ser Arg Asn Leu Phe Phe Ile Gln Ile Ser Glu Pro Pro  
 1 5 10 15  
 Thr Pro Glu Ile Leu Thr Tyr Trp Val Leu Gly Arg Thr Trp Lys Ser  
 20 25 30  
 Val Phe Ile Ala Thr His Pro Gly Asp Ser Ser Arg Trp Leu Trp Cys  
 35 40 45  
 Asn Ser Ser Met Gly Trp Tyr Leu Gly Ala Ser Pro Gly Val Arg Ala  
 50 55 60  
 Gln Val Pro His Gly Gln Glu Leu Cys Arg Pro Pro Leu Leu Thr Ser  
 65 70 75 80  
 Lys Trp Phe Pro Leu Val Gln Leu Glu His Glu Cys Tyr Leu Leu Ser  
 85 90 95  
 Pro Thr Leu Leu Leu Leu Leu Thr Ile  
 100 105

&lt;210&gt; 2705

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2705

Met Ser Val Val Ser Gln His Trp Arg Pro Pro Ala Gly Asn Leu Arg  
 1 5 10 15  
 Ser Gly Ser Gln Arg Gly Trp Phe Leu Leu Arg Pro Gly Gly Arg Leu  
 20 25 30  
 Leu Gln Ala Cys Leu Leu Leu Leu Gly Val Pro Ala Val Phe Gly Phe  
 35 40 45  
 His Thr Leu Ser Tyr Leu Thr Leu Val Pro Ala Phe Val Phe Thr Trp  
 50 55 60  
 Pro Phe Pro Pro Val Cys Val Cys Val Gln Ile Ser Leu Phe Ile Glu  
 65 70 75 80  
 Met Gln Ser Tyr Gly Ile Arg Ala Pro Pro Cys Ser Ser Met Ala Leu  
 85 90 95

Ser Glu Val Ile Thr Ser Thr Ala Thr Leu Phe Pro Asn Thr Val Thr  
 100 105 110

Phe

<210> 2706

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2706

Met Arg Leu Glu Asp Glu Ala Ala Ala Gln Ala Leu Ile Gly Gly Arg  
 1 5 10 15  
 Asp Leu Val Val Ile Gly Phe Phe Gln Asp Leu Gln Asp Glu Asp Val  
 20 25 30  
 Ala Thr Phe Leu Ala Leu Ala Gln Asp Ala Leu Asp Met Thr Phe Gly  
 35 40 45  
 Leu Thr Asp Arg Pro Arg Leu Phe Gln Gln Phe Gly Leu Thr Lys Asp  
 50 55 60  
 Thr Val Val Leu Phe Lys Lys Phe Asp Glu Gly Arg Ala Asp Phe Pro  
 65 70 75 80  
 Val Asp Glu Glu Leu Gly Leu Asp Leu Gly Asp Leu Ser Arg Phe Leu  
 85 90 95  
 Val Thr His Ser Met Arg Leu Val Thr Glu Phe Asn Ser Gln Thr Ser  
 100 105 110  
 Ala Lys Ile Phe Ala Ala Arg Ile Leu Asn His Leu Leu Leu Phe Val  
 115 120 125  
 Asn Gln Thr Leu Ala Ala His Arg Glu Leu Leu Ala Gly Phe Gly Glu  
 130 135 140  
 Ala Ala Pro Arg Phe Arg Gly Gln Val Leu Phe Val Val Val Asp Val  
 145 150 155 160  
 Ala Ala Asp Asn Glu His Val Leu Gln Tyr Phe Gly Leu Lys Ala Glu  
 165 170 175  
 Ala Ala Pro Thr Leu Arg Leu Val Asn Leu Glu Thr Thr Lys Lys Tyr  
 180 185 190

Ala Pro Val Asp Gly Gly Pro Val Thr Ala Ala Ser Ile Thr Ala Phe  
 195 200 205  
 Cys His Ala Val Leu Asn Gly Gln Val Lys Pro Tyr Leu Leu Ser Gln  
 210 215 220  
 Glu Ile Pro Pro Asp Trp Asp Gln Arg Pro Val Lys Thr Leu Val Gly  
 225 230 235 240  
 Lys Asn Phe Glu Gln Val Ala Phe Asp Glu Thr Lys Asn Val Phe Val  
 245 250 255  
 Lys Phe Tyr Ala Pro Trp Cys Thr His Cys Lys Glu Met Ala Pro Ala  
 260 265 270  
 Trp Glu Ala Leu Ala Glu Lys Tyr Gln Asp His Glu Asp Ile Ile Ile  
 275 280 285  
 Ala Glu Leu Asp Ala Thr Ala Asn Glu Leu Asp Ala Phe Ala Val His  
 290 295 300  
 Gly Phe Pro Thr Leu Lys Tyr Phe Pro Ala Gly Pro Gly Arg Lys Val  
 305 310 315 320  
 Ile Glu Tyr Lys Ser Thr Arg Asp Leu Glu Thr Phe Ser Lys Phe Leu  
 325 330 335  
 Asp Asn Gly Gly Val Leu Pro Thr Glu Glu Pro Pro Glu Glu Pro Ala  
 340 345 350  
 Ala Pro Phe Pro Glu Pro Pro Ala Asn Ser Thr Met Gly Ser Lys Glu  
 355 360 365  
 Glu Leu  
 370

<210> 2707

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2707

Met Ser Lys Asn Cys Ile Lys Leu Leu Cys Glu Asp Pro Val Phe Ala  
 1 5 10 15  
 Glu Tyr Ile Lys Cys Ile Leu Met Asp Glu Arg Thr Phe Leu Asn Asn  
 20 25 30

Asn	Ile	Val	Tyr	Thr	Phe	Met	Thr	His	Phe	Leu	Leu	Lys	Val	Gln	Ser	
35						40						45				
Gln	Val	Phe	Ser	Glu	Ala	Asn	Cys	Ala	Asn	Leu	Ile	Ser	Thr	Leu	Ile	
50						55						60				
Thr	Asn	Leu	Ile	Ser	Gln	Tyr	Gln	Asn	Leu	Gln	Ser	Asp	Phe	Ser	Asn	
65						70						75			80	
Arg	Val	Glu	Ile	Ser	Lys	Ala	Ser	Ala	Ser	Leu	Asn	Gly	Val	Arg	Thr	
			85						90						95	
Met	Gln	Arg	Arg	Arg	His	Thr	Leu	Leu	Asn	Cys	Pro	Ser	Val	Asn	Cys	
			100						105						110	
Val	Ala	Phe	Ile													
115																

&lt;210&gt; 2708

&lt;211&gt; 218

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2708

Met	Thr	Met	Tyr	Lys	Ser	Lys	Arg	Arg	His	Gln	Arg	Tyr	Ile	Asn	Met
1				5					10					15	
Ala	Gly	Glu	Pro	Lys	Pro	Tyr	Arg	Pro	Lys	Pro	Gly	Asn	Lys	Arg	Pro
				20					25					30	
Leu	Ser	Ala	Leu	Tyr	Arg	Leu	Glu	Ser	Lys	Glu	Pro	Phe	Leu	Ser	Val
				35					40					45	
Gly	Gly	Tyr	Val	Phe	Asp	Tyr	Asp	Tyr	Tyr	Arg	Asp	Asp	Phe	Tyr	Asn
				50					55					60	
Arg	Leu	Phe	Asp	Tyr	His	Gly	Arg	Val	Pro	Pro	Pro	Pro	Arg	Ala	Val
65					70					75					80
Ile	Pro	Leu	Lys	Arg	Pro	Arg	Val	Ala	Val	Thr	Thr	Thr	Arg	Arg	Gly
				85						90					95
Lys	Gly	Val	Phe	Ser	Met	Lys	Gly	Gly	Ser	Arg	Ser	Thr	Ala	Ser	Gly
				100						105					110
Ser	Thr	Gly	Ser	Lys	Leu	Lys	Ser	Asp	Glu	Leu	Gln	Thr	Ile	Lys	Lys
				115						120					125

Glu Leu Thr Gln Ile Lys Thr Lys Ile Asp Ser Leu Leu Gly Arg Leu  
 130 135 140  
 Glu Lys Ile Glu Lys Gln Gln Lys Ala Glu Ala Glu Ala Gln Lys Lys  
 145 150 155 160  
 Gln Leu Glu Glu Ser Leu Val Leu Ile Gln Glu Glu Cys Val Ser Glu  
 165 170 175  
 Ile Ala Asp His Ser Thr Glu Glu Pro Ala Glu Gly Gly Pro Asp Ala  
 180 185 190  
 Asp Gly Glu Glu Met Thr Asp Gly Ile Glu Glu Asp Phe Asp Glu Asp  
 195 200 205  
 Gly Gly His Glu Leu Phe Leu Gln Ile Lys  
 210 215

<210> 2709

<211> 362

<212> PRT

<213> Homo sapiens

<400> 2709

Met Pro Asp Cys Pro Val Ser Leu Leu Gln Trp Leu Phe Gln Leu Leu  
 1 5 10 15  
 Thr Trp Pro Pro Glu Thr Ser Leu Gly Ala Phe Gly Leu Leu Trp Asp  
 20 25 30  
 Leu Ile Val Asp Gly Ile Phe Leu Gln Pro Asp Glu Asp Lys His Leu  
 35 40 45  
 Trp Cys Pro Ser Leu Gln Glu Val Arg Glu Ala Phe His Ser Leu Gly  
 50 55 60  
 Ala His Ser Pro Ala Leu Tyr Pro Leu Gly Pro Phe Trp His Gly Gly  
 65 70 75 80  
 Arg Val Leu Pro Gly Glu Ala Gly Leu Asn Glu Asn Glu Glu Gln Asp  
 85 90 95  
 Ala Pro Gln Glu Ile Ala Leu Asp Ile Ser Leu Gly His Ile Tyr Lys  
 100 105 110  
 Phe Leu Ala Leu Cys Ala Gln Ala Gln Pro Gly Ala Tyr Thr Asp Glu  
 115 120 125



Asn Leu Met Gly Leu Ile Glu Leu Leu Cys Arg Thr Ser Leu Asp Val  
 130 135 140  
 Gly Leu Arg Leu Leu Pro Lys Val Asp Leu Gln Gln Leu Leu Leu Leu  
 145 150 155 160  
 Leu Leu Glu Asn Ile Arg Glu Trp Pro Gly Lys Leu Gln Glu Leu Cys  
 165 170 175  
 Cys Thr Leu Ser Trp Val Ser Asp His His His Asn Leu Leu Ala Leu  
 180 185 190  
 Val Gln Phe Phe Pro Asp Met Thr Ser Arg Ser Arg Arg Leu Arg Ser  
 195 200 205  
 Gln Leu Ser Leu Val Val Ile Ala Arg Met Leu Gly Gln Gln Glu Met  
 210 215 220  
 Leu Pro Leu Trp Gln Glu Lys Thr Gln Leu Ser Ser Leu Ser Arg Leu  
 225 230 235 240  
 Leu Gly Leu Met Arg Pro Ser Ser Leu Arg Gln Tyr Leu Asp Ser Val  
 245 250 255  
 Pro Leu Pro Pro Cys Gln Glu Gln Gln Pro Lys Ala Ser Ala Glu Leu  
 260 265 270  
 Asp His Lys Ala Cys Tyr Leu Cys His Ser Leu Leu Met Leu Ala Gly  
 275 280 285  
 Val Val Val Ser Cys Gln Asp Ile Thr Pro Asp Gln Trp Gly Glu Leu  
 290 295 300  
 Gln Leu Leu Cys Met Gln Leu Asp Arg His Ile Ser Thr Gln Ile Arg  
 305 310 315 320  
 Glu Ser Pro Gln Ala Met His Arg Thr Met Leu Lys Asp Leu Ala Thr  
 325 330 335  
 Gln Thr Tyr Ile Arg Trp Gln Glu Leu Leu Thr His Cys Gln Pro Gln  
 340 345 350  
 Ala Gln Tyr Phe Ser Pro Trp Lys Asp Ile  
 355 360

&lt;210&gt; 2710

&lt;211&gt; 131

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2710

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Met Gln Gly Gly Trp Phe Pro Arg Lys Pro Pro Asn Glu Glu Ile Val
 1             5             10             15
Gly Asn Val Leu Gln Gly Ala Ala Ser Leu Trp Ser Gln Thr Arg Gly
      20             25             30
Arg Ser Ile Arg Pro Asn Met Ala Gly Cys Val Ser Leu Arg Asn Ala
      35             40             45
Gly Ser Ser Ala Arg Leu Ser Ala Ile Cys Lys Met Trp Pro Lys Asn
      50             55             60
Tyr Leu Lys Ile Asn His Ile Lys Thr Arg Ala Ser Met Asn Gln Leu
      65             70             75             80
Leu Arg Ile Ala Val Ala Glu Lys Gly Leu Val Ser Pro Cys Phe Leu
      85             90             95
Arg Pro Pro Ser Ser Ser Ser His Cys Gln Gly Leu Leu Ser Pro Pro
      100            105            110
Ser Ala Phe Ser Cys Leu Ala Leu Cys His Leu Leu Trp Arg Pro His
      115            120            125
Val Phe Ile
      130

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<210> 2711

<211> 608

<212> PRT

<213> Homo sapiens

<400> 2711

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Met Gly Ser Val Thr Val Arg Tyr Phe Cys Tyr Gly Cys Leu Phe Thr
 1             5             10             15
Ser Ala Thr Trp Thr Val Leu Leu Phe Val Tyr Phe Asn Phe Ser Glu
      20             25             30
Val Thr Gln Pro Leu Lys Asn Val Pro Val Lys Gly Ser Gly Pro His
      35             40             45
Gly Pro Ser Pro Lys Lys Phe Tyr Pro Arg Phe Thr Arg Gly Pro Ser

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50	55	60
Arg Val Leu Glu Pro Gln Phe Lys Ala Asn Lys Ile Asp Asp Val Ile		
65	70	75
Asp Ser Arg Val Glu Asp Pro Glu Glu Gly His Leu Lys Leu Ser Ser		
85	90	95
Glu Leu Gly Met Ile Phe Asn Glu Arg Asp Gln Glu Leu Arg Asp Leu		
100	105	110
Gly Tyr Gln Lys His Ala Phe Asn Met Leu Ile Ser Asp Arg Leu Gly		
115	120	125
Tyr His Arg Asp Val Pro Asp Thr Arg Asn Ala Ala Cys Lys Glu Lys		
130	135	140
Phe Tyr Pro Pro Asp Leu Pro Ala Ala Ser Val Val Ile Cys Phe Tyr		
145	150	155
Asn Glu Ala Phe Ser Ala Leu Leu Arg Thr Val His Ser Val Ile Asp		
165	170	175
Arg Thr Pro Ala His Leu Leu His Glu Ile Ile Leu Val Asp Asp Asp		
180	185	190
Ser Asp Phe Asp Asp Leu Lys Gly Glu Leu Asp Glu Tyr Val Gln Lys		
195	200	205
Tyr Leu Pro Gly Lys Ile Lys Val Ile Arg Asn Thr Lys Arg Glu Gly		
210	215	220
Leu Ile Arg Gly Arg Met Ile Gly Ala Ala His Ala Thr Gly Glu Val		
225	230	235
Leu Val Phe Leu Asp Ser His Cys Glu Val Asn Val Met Trp Leu Gln		
245	250	255
Pro Leu Leu Ala Ala Ile Arg Glu Asp Arg His Thr Val Val Cys Pro		
260	265	270
Val Ile Asp Ile Ile Ser Ala Asp Thr Leu Ala Tyr Ser Ser Ser Pro		
275	280	285
Val Val Arg Gly Gly Phe Asn Trp Gly Leu His Phe Lys Trp Asp Leu		
290	295	300
Val Pro Leu Ser Glu Leu Gly Arg Ala Glu Gly Ala Thr Ala Pro Ile		
305	310	315
Lys Ser Pro Thr Met Ala Gly Gly Leu Phe Ala Met Asn Arg Gln Tyr		
325	330	335
Phe His Glu Leu Gly Gln Tyr Asp Ser Gly Met Asp Ile Trp Gly Gly		

340	345	350
Glu Asn Leu Glu Ile Ser Phe Arg Ile Trp Met Cys Gly Gly Lys Leu		
355	360	365
Phe Ile Ile Pro Cys Ser Arg Val Gly His Ile Phe Arg Lys Arg Arg		
370	375	380
Pro Tyr Gly Ser Pro Glu Gly Gln Asp Thr Met Thr His Asn Ser Leu		
385	390	395
Arg Leu Ala His Val Trp Leu Asp Glu Tyr Lys Glu Gln Tyr Phe Ser		
405	410	415
Leu Arg Pro Asp Leu Lys Thr Lys Ser Tyr Gly Asn Ile Ser Glu Arg		
420	425	430
Val Glu Leu Arg Lys Lys Leu Gly Cys Lys Ser Phe Lys Trp Tyr Leu		
435	440	445
Asp Asn Val Tyr Pro Glu Met Gln Ile Ser Gly Ser His Ala Lys Pro		
450	455	460
Gln Gln Pro Ile Phe Val Asn Arg Gly Pro Lys Arg Pro Lys Val Leu		
465	470	475
Gln Arg Gly Arg Leu Tyr His Leu Gln Thr Asn Lys Cys Leu Val Ala		
485	490	495
Gln Gly Arg Pro Ser Gln Lys Gly Gly Leu Val Val Leu Lys Ala Cys		
500	505	510
Asp Tyr Ser Asp Pro Asn Gln Ile Trp Ile Tyr Asn Glu Glu His Glu		
515	520	525
Leu Val Leu Asn Ser Leu Leu Cys Leu Asp Met Ser Glu Thr Arg Ser		
530	535	540
Ser Asp Pro Pro Arg Leu Met Lys Cys His Gly Ser Gly Gly Ser Gln		
545	550	555
Gln Trp Thr Phe Gly Lys Asn Asn Arg Leu Tyr Gln Val Ser Val Gly		
565	570	575
Gln Cys Leu Arg Ala Val Asp Pro Leu Gly Gln Lys Gly Ser Val Ala		
580	585	590
Met Ala Ile Cys Asp Gly Ser Ser Ser Gln Gln Trp His Leu Glu Gly		
595	600	605

&lt;211&gt; 360

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2712

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Met Ala Leu Phe Ser Val Arg Lys Ala Arg Glu Cys Trp Arg Phe Ile
  1             5             10            15
Arg Ala Leu His Lys Gly Pro Ala Ala Thr Leu Ala Pro Gln Lys Glu
      20             25            30
Ser Gly Glu Arg Val Phe Ser Gly Ile Gln Pro Thr Gly Ile Leu His
      35             40            45
Leu Gly Asn Tyr Leu Gly Ala Ile Glu Ser Trp Val Asn Leu Gln Glu
      50             55            60
Glu Tyr Asp Thr Val Ile Tyr Ser Ile Val Asp Leu His Ser Ile Thr
      65             70            75            80
Val Pro Gln Asp Pro Thr Val Leu Gln Gln Ser Ile Leu Asp Met Thr
      85             90            95
Ala Val Leu Leu Ala Cys Gly Ile Asn Pro Glu Lys Ser Ile Leu Phe
      100            105            110
Gln Gln Ser Lys Val Ser Glu His Thr Gln Leu Ser Trp Ile Leu Thr
      115            120            125
Cys Met Val Arg Leu Pro Arg Leu Gln His Leu His Gln Trp Lys Ala
      130            135            140
Lys Ala Ala Lys Gln Lys His Asp Gly Thr Val Gly Leu Leu Thr Tyr
      145            150            155            160
Pro Val Leu Gln Ala Ala Asp Ile Leu Cys Tyr Lys Ser Thr His Val
      165            170            175
Pro Val Gly Glu Asp Gln Val Gln His Met Glu Leu Val Gln Asp Leu
      180            185            190
Ala Arg Ser Phe Asn Gln Lys Tyr Gly Glu Phe Phe Pro Leu Pro Lys
      195            200            205
Ser Ile Leu Thr Ser Met Lys Lys Val Lys Ser Leu Arg Asp Pro Ser
      210            215            220
Ser Lys Met Ser Lys Ser Asp Pro Asp Lys Leu Ala Thr Val Arg Ile
      225            230            235            240
Thr Asp Ser Pro Glu Glu Ile Val Gln Lys Phe Arg Lys Ala Val Thr

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245 250 255  
 Asp Phe Thr Ser Glu Val Thr Tyr Glu Pro Asp Ser Arg Ala Gly Val  
 260 265 270  
 Ser Asn Met Val Ala Ile His Ala Ala Val Ser Gly Leu Ser Val Glu  
 275 280 285  
 Glu Val Val Arg Ser Ser Ala Gly Leu Asp Thr Ala Arg Tyr Lys Leu  
 290 295 300  
 Leu Val Ala Asp Ala Val Ile Glu Lys Phe Ala Pro Ile Arg Lys Glu  
 305 310 315 320  
 Ile Glu Lys Leu Lys Met Asp Lys Asp His Leu Arg Lys Val Leu Leu  
 325 330 335  
 Val Gly Ser Ala Lys Ala Lys Glu Leu Ala Ser Pro Val Phe Glu Glu  
 340 345 350  
 Val Lys Lys Leu Val Gly Ile Leu  
 355 360

<210> 2713

<211> 295

<212> PRT

<213> Homo sapiens

<400> 2713

Met Gln Met Ser Val Pro Cys Val Leu Ser Ser Leu Gln Asn His Glu  
 1 5 10 15  
 Pro Asn Lys Pro Leu Phe Thr Thr Gln Ser Gln Leu Leu Ser Lys Val  
 20 25 30  
 Leu Glu Val Leu Asp Pro Asp Arg Lys Leu Glu Asp Thr Trp Ala Tyr  
 35 40 45  
 Cys Gln Asp Thr Arg Lys Gly Met Lys Glu Pro Thr Lys Leu Leu Lys  
 50 55 60  
 Lys His Ser Thr Gln Val Tyr Leu Gly Pro Ser Lys Lys Thr Ser Val  
 65 70 75 80  
 Ser Asn Ala Gly Gln Trp Leu Tyr Glu Glu Lys Pro His Lys Met Asp  
 85 90 95  
 Leu Leu His Glu Asn Gly Pro Arg Pro Gly Leu His Glu Asn Val Cys

100				105				110							
Lys	Ala	Val	Ser	Asp	Phe	Cys	Lys	Trp	Val	Thr	Thr	Phe	Gly	Ile	Ser
115				120				125							
Asp	Ile	Asp	Glu	Glu	Phe	Ile	Leu	Lys	Gln	Phe	Asp	Ile	Asp	Tyr	Glu
130				135				140							
Thr	Lys	Pro	Ser	His	Asp	Ala	Leu	His	Thr	Met	Lys	Leu	Asn	Gln	Val
145				150				155				160			
Pro	Leu	Glu	Leu	Lys	Arg	Ser	Val	Gly	Leu	Ser	Lys	Leu	Gln	Lys	Thr
165				170				175							
Glu	Phe	Phe	Gln	Lys	Leu	Gly	Tyr	Glu	Arg	Lys	Leu	Gln	Lys	Pro	Gln

				180				185				190				
Asn	Pro	Tyr	Lys	Pro	Lys	Trp	Val	Lys	Met	Arg	Tyr	Gly	Ala	Trp	Tyr	
195				200				205								
Leu	Asn	Pro	Lys	Leu	Trp	Lys	Lys	Gln	Arg	Val	Asp	Glu	Pro	Leu	Val	
210				215				220								
Asp	Pro	Glu	Val	Ser	His	Lys	Ala	Gln	Glu	Glu	Asn	Phe	Lys	Lys	Glu	
225				230				235				240				
Leu	Gln	Glu	Gln	Glu	Glu	Leu	Leu	Ala	Asp	Leu	His	Gly	Thr	Val	Ala	
245				250				255								
Phe	Lys	Asp	Phe	Ile	Leu	Ser	Arg	Gly	Tyr	Arg	Met	Pro	Arg	Phe	Leu	
260				265				270								
Glu	Asn	Met	Tyr	Ile	Gly	Lys	Glu	Cys	Lys	Arg	Ala	Cys	Asn	Lys	Thr	
275				280				285								
Pro	Ile	Lys	Arg	Thr	Gln	Ala										
290				295												

&lt;210&gt; 2714

&lt;211&gt; 288

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2714

Met Ile Leu Arg Arg Ala Pro Ser Ser Leu Gln Thr Pro Ser Leu Leu

1

5

10

15

Leu Asp Glu Arg Leu Leu Val Lys Arg Cys Ala Leu Val Val Ile Trp  
                   20                  25                  30  
 Ala Phe Gly Leu Arg Leu His Arg Val Gln Pro Gly Ala Arg Asn His  
                   35                  40                  45  
 Leu Leu Glu Ala Ala Pro Ser Leu Ala Thr Glu Ala Leu Pro Ser Arg  
                   50                  55                  60  
 Cys Gln Ser Pro Ala Trp Arg Ser Cys Gln Met Ala Lys Val Pro Phe  
                   65                  70                  75                  80  
 Ser Gln Val Lys Cys Ser Ala Tyr Thr Gly Ala Lys Thr Leu Ser Trp  
                   85                  90                  95  
 His Leu Cys Trp Pro Ser Ala Gly Ala Lys Pro Arg Gly Ser Leu Pro  
                   100                  105                  110  
 Trp Val Ser Arg Val Leu Pro Ala Ser Ala Trp Cys Pro Val Gly Ala  
                   115                  120                  125  
 Ala Ala Ser Leu Leu Val Glu Gln Met Pro Gly Cys Gln Leu Gly Gly  
                   130                  135                  140  
 Gly Ala Asn Arg Ala Leu Gln Ala Trp Ser Trp Gln Pro Ser Trp Trp  
                   145                  150                  155                  160  
 Pro Leu Phe Arg Ala Pro Thr Leu Gly Ser Ile Arg Lys Gly Leu Lys  
                   165                  170                  175  
 Met Ile Glu Glu Ala Pro Phe Arg Gly Gln Gly Gly Cys Cys Asp Arg  
                   180                  185                  190  
 Val Ala Arg Gly Arg Ala Phe Pro Ala Ala Gly Gly Asp Ala Thr Trp  
                   195                  200                  205  
 Thr Arg Arg Arg Thr Ala His Ser Ser Ser Thr Pro His Pro Gly Lys  
                   210                  215                  220  
 Ala Ala Ala Ser Pro Arg Val Gly Trp Ser Gly Pro Leu Gln Asp Ser  
                   225                  230                  235                  240  
 Cys Gly Val Pro Ser Pro Ala His Thr Arg Asp Ala Ile Cys Gly Phe  
                   245                  250                  255  
 Gly Glu Cys Phe Ala Asp Asp Pro Ser Lys Gln Ser His Pro Arg Met  
                   260                  265                  270  
 Gly Phe Ser Glu Ser Gln Thr Leu Asp Leu Ser Ser Gln Arg Glu Gly  
                   275                  280                  285



&lt;210&gt; 2715

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2715

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Met Gln Leu Leu Lys Ala Leu Trp Ala Leu Ala Gly Ala Ala Leu Cys
 1              5              10              15
Cys Phe Leu Val Leu Val Ile His Ala Gln Phe Leu Lys Glu Gly Gln
      20              25              30
Leu Ala Ala Gly Thr Cys Glu Ile Val Thr Leu Asp Arg Asp Ser Ser
      35              40              45
Gln Pro Arg Arg Thr Ile Ala Arg Gln Thr Ala Arg Cys Ala Cys Arg
      50              55              60
Lys Gly Gln Ile Ala Gly Thr Thr Arg Ala Arg Pro Ala Cys Val Asp
      65              70              75              80
Ala Arg Ile Ile Lys Thr Lys Gln Trp Cys Asp Met Leu Pro Cys Leu
              85              90              95
Glu Gly Glu Gly Cys Asp Leu Leu Ile Asn Arg Ser Gly Trp Thr Cys
      100              105              110
Thr Gln Pro Gly Gly Arg Ile Lys Thr Thr Thr Val Ser
      115              120              125

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&lt;210&gt; 2716

&lt;211&gt; 170

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2716

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Met Ser Arg His Ser Leu Glu Glu Gly Leu Asp Met Val Asn Arg Glu
 1              5              10              15
Thr Ala His Glu Arg Glu Met Gln Thr Ala Met Gln Ile Ser Gln Ser
      20              25              30
Trp Asp Glu Ser Leu Ser Leu Ser Asp Ser Asp Phe Asp Lys Pro Glu
      35              40              45

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Lys Leu Tyr Ser Pro Lys Arg Ile Asp Phe Thr Pro Val Ser Pro Ala  
 50 55 60  
 Pro Ser Pro Thr Arg Gly Phe Gly Lys Met Phe Val Ser Ser Ser Gly  
 65 70 75 80  
 Leu Pro Pro Ser Pro Val Pro Ser Pro Arg Arg Phe Ser Ser Arg Arg  
 85 90 95  
 Ser Gln Ser Pro Val Lys Cys Ile Arg Pro Ser Val Leu Gly Pro Leu  
 100 105 110  
 Lys Arg Lys Gly Glu Met Glu Thr Glu Ser Gln Pro Lys Arg Leu Phe  
 115 120 125  
 Gln Gly Thr Thr Asn Met Leu Ser Pro Asp Ala Ala Gln Leu Ser Asp  
 130 135 140  
 Leu Ser Ser Trp Trp Cys Tyr Gln Gly Glu Glu Ile Pro Ala Leu Thr  
 145 150 155 160  
 Arg Cys Val Glu His Leu Gln Met Asn Glu  
 165 170

<210> 2717

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2717

Met Leu Val Arg Phe Ala Leu Ser Leu Leu Pro Asn Leu Gln Pro Gly  
 1 5 10 15  
 Gln Gln Ser Glu Val Pro Leu Trp Pro Glu Ala Ser Pro Pro Cys Leu  
 20 25 30  
 Pro Ser Phe Asp Leu Ser Phe Pro Ser Met Lys Pro Ser Gly Pro Cys  
 35 40 45  
 His Phe Phe Thr Thr Glu Asn Ser Trp Leu Leu Gln Lys Pro Glu Tyr  
 50 55 60  
 Leu Ser Phe Pro Ala Gln Met Ala Ala Ser Leu Ser Cys Pro Ile Trp  
 65 70 75 80  
 Ala Thr Ser Ala Ser Cys Arg His Pro Arg Gln Met Asp Ser Val Gly  
 85 90 95

Gly Asn Gln Ala Leu Arg Ile Gln Cys Glu Glu Val Ala Glu Cys Leu  
                   100                  105                  110  
 Phe Ile Leu Phe  
                   115

<210> 2718

<211> 101

<212> PRT

<213> Homo sapiens

<400> 2718

Met Ser Ala Ala Gly Lys Ala Gly Arg Ala Asp Thr Arg Gln Leu Phe  
       1                  5                  10                  15  
 Pro Ser Leu Gly Lys Gln His Gly His Gly Cys His Arg Val Pro Arg  
                   20                  25                  30  
 Arg Cys Ser His Gly Arg Arg Asn Ala Phe Leu Gln Gly Ala Ser Trp  
           35                  40                  45  
 Leu Ser Ser Pro Arg Ser Ser Gly Arg Val Arg Ser Val Ala Leu Val  
           50                  55                  60  
 His Arg Arg Arg Leu Pro Arg Leu Lys Leu Val Met Arg Ser Trp Ala  
       65                  70                  75                  80  
 Pro Gly Gly Ser Ser Leu Arg Asn Thr Leu Glu Thr Cys Asp Ile Ser  
                   85                  90                  95  
 Ala His Thr Pro His  
                   100

<210> 2719

<211> 181

<212> PRT

<213> Homo sapiens

<400> 2719

Met Met Thr Ser Leu Asn Cys Ala Arg Thr Arg Val Pro Gly Ala Pro  
       1                  5                  10                  15

Cys Asp His Leu Gly Arg Gly Leu Arg Leu Val Val Thr Gln Arg Ser  
                   20                                  25                                  30  
 Asp Pro Leu Pro Pro Ala Ala Leu Ser Asp Pro Val Ala Lys Lys Ser  
                   35                                  40                                  45  
 Cys Met Leu Asn Leu Leu Ser Ser Leu Pro Glu Ala Asn Leu Leu Thr  
                   50                                  55                                  60  
 Phe Leu Phe Leu Leu Asp His Leu Glu Arg Met Ala Glu Lys Glu Ala  
                   65                                  70                                  75                                  80  
 Val Asn Lys Met Ser Leu His Asn Leu Gly Thr Val Phe Gly Pro Thr  
                                   85                                  90                                  95  
 Leu Leu Arg Pro Ser Glu Lys Glu Ser Lys Leu Pro Ala Asn Pro Ser  
                   100                                  105                                  110  
 Gln Pro Ile Thr Met Thr Asp Ser Trp Ser Leu Glu Val Met Ser Gln  
                   115                                  120                                  125  
 Ile Gln Ile Pro Asn Lys Met Leu Glu Cys Asn Pro Trp Thr Ile Arg  
                   130                                  135                                  140  
 Val Leu Ala Ala Phe Gly Leu Pro Leu Ser Ala Trp Leu Arg Cys Ser  
                   145                                  150                                  155                                  160  
 Gln Glu Trp Val Leu Lys Ser Leu Glu Asn Arg Ile Arg Gly Gly Leu  
                   165                                  170                                  175  
 Gly Arg Gly Gln Ala  
                   180

&lt;210&gt; 2720

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2720

Met Ala Ala Gln Pro Phe Leu Lys Leu Cys Glu Asp Glu Arg Val Arg  
           1                                  5                                  10                                  15  
 Gly Gly Glu Trp Ser Ser Ser Gln Gly Pro Val Glu Val Thr Ala His  
                   20                                  25                                  30  
 Pro Pro Ala Cys Phe Ser Ser Ala Gly Ala Gly Trp Trp Ser Arg Leu  
                   35                                  40                                  45

Gln Gly Trp Ala Leu Ala Pro Leu Glu Gln Ala Arg Ala Pro Glu Glu  
 50 55 60  
 Gly Leu Leu Pro Asp Trp Cys Trp Ser Ala Phe Gly Ser Ala Val Gly  
 65 70 75 80  
 Ser Arg Asn Ile Pro Gly Pro Cys Leu Gly Thr Pro Gly Gly Lys Gln  
 85 90 95  
 Asp Gly Arg Trp Pro Val His Thr Phe Pro Leu Ile Leu Gly Ala Leu  
 100 105 110  
 Ile Pro Thr Ser His Pro Leu Gln Trp Gly Pro Trp Pro Thr Ser Gln  
 115 120 125  
 Arg

<210> 2721

<211> 142

<212> PRT

<213> Homo sapiens

<400> 2721

Met Gly Asp Gly Cys Thr Phe Cys Ala Pro Arg Ser Leu Trp Leu Pro  
 1 5 10 15  
 Ala Ala Asp Pro Ser Leu Ile Leu Leu Pro Asp Leu Ser Ile Phe Leu  
 20 25 30  
 Ser Ala Cys Glu Lys Met Ser Val Val Pro Glu Lys Ser Gly Cys Leu  
 35 40 45  
 Cys Leu Ala Ser Leu His Thr Trp Ala Leu Thr Ser Arg Leu Leu Gly  
 50 55 60  
 Ser Ser Ser Ser Val Ser Arg Ala Ala Val Leu Leu Leu Val Phe  
 65 70 75 80  
 Ser His Phe Pro Pro Gly Lys Glu Arg Leu Pro Asn Ala Gly Met Glu  
 85 90 95  
 Tyr Lys Gln Asn Val Met Gly Ser Ala Val Thr Pro Pro Pro Glu Ala  
 100 105 110  
 Glu Ala Val Leu Leu Glu Asp Arg Arg Arg His His Arg Val Phe Pro  
 115 120 125

Leu Pro Leu Pro Leu Leu Arg Asn Val Ser Ile Pro Ile Gly  
 130 135 140

<210> 2722

<211> 258

<212> PRT

<213> Homo sapiens

<400> 2722

Met Cys Leu Asn Leu Leu Ala Gln Leu Leu Pro Pro Gly Ser Leu Ser  
 1 5 10 15  
 Arg Pro Arg Thr Phe Ser Ser Gln Pro Leu Gln Thr Lys Leu Met Thr  
 20 25 30  
 His Asn Gly Leu Phe Arg Pro Ile Pro Tyr Leu Thr Ala Val Ser Ala  
 35 40 45  
 Asp Glu Pro Thr Ala Ser Gln Gln Pro Pro Gln Ala Gln Leu His Arg  
 50 55 60  
 Tyr Asn Gly Leu Phe Arg Pro Ser Ser Cys Leu Pro Ala Phe Ser Pro  
 65 70 75 80  
 Gly Pro Glu Leu Ser Gln Val Asp Leu Thr Arg Pro Ser Ser Cys Phe  
 85 90 95  
 Phe Ala Ala Ser Pro Gly Pro Ala Pro Ala Ser Trp Trp Pro Leu Gln  
 100 105 110  
 Ala Gln Pro Val Pro Pro Val Gly Leu Tyr Ser Pro Asn Ile Cys Leu  
 115 120 125  
 Thr Ala Asp Ser Ser Arg Pro Ala Ser Ala Ser Gln Trp Thr Leu Gln  
 130 135 140  
 Thr Gln Met Val Ser His Cys Gly Ile Leu Arg Arg Ser Ser Cys Leu  
 145 150 155 160  
 Ser Ala Ala Ser Pro Gly Pro Ala Pro Pro Ala Ser Gln Trp Pro Leu  
 165 170 175  
 Ser Ala Gln Pro Ser Ser Cys Leu Pro Ala Ala Phe Pro Ser Pro Ala  
 180 185 190  
 Phe Asp Phe Trp Trp Pro Leu Gln Ala Ser Thr Arg Pro Ser Leu Leu  
 195 200 205

Pro Pro Glu Gly Leu His Arg Pro Ser Leu Cys Leu Thr Ala Asp Ser  
 210 215 220  
 Pro Arg Pro Ala Ser Ser Arg Leu Thr Ala Ala Ser Pro Val Gln Ser  
 225 230 235 240  
 Ser Cys Leu Ser Ala Thr Ser Ala Gly Pro Ala Thr Ala Cys Gln Trp  
 245 250 255  
 Pro Leu

<210> 2723

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2723

Met Ser Phe Ser Pro Tyr Ser Thr Met Ile Thr Val Cys Val Cys Phe  
 1 5 10 15  
 Asn Ser Arg Val Gln Leu Thr Val Pro Ser Phe Thr Ala Trp Leu Arg  
 20 25 30  
 Ser Arg Tyr Ser Lys Ala Leu Phe Met Val Leu Arg Arg Ala Ala Gln  
 35 40 45  
 Glu Lys Asp Lys Gly Val Cys Gln Gly Trp His Cys Val Lys Lys Trp  
 50 55 60  
 Ala Cys Lys Gly Arg Ile Pro Gly Gln Pro Leu Gln Pro Gln Pro Leu  
 65 70 75 80  
 Gly Pro Tyr Leu Arg Ser Leu Ser Gln His Pro Ala Thr Gln Thr Pro  
 85 90 95  
 Arg Pro Gln Ala Arg Ala Ser Ser Arg Tyr Leu Glu Leu His Arg Ser  
 100 105 110  
 Gln Asn Arg Gly Gly Ser Glu Phe Lys Phe Trp Phe Cys Tyr Cys Leu  
 115 120 125  
 Ile Ala Cys Cys Arg Asp Ser Ile Ser Ser Ser Gly Lys Trp Glu  
 130 135 140

&lt;210&gt; 2724

&lt;211&gt; 347

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2724

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Met Pro Gln Ala Glu Leu Gly Ile Gln Val Cys Thr Cys Arg Leu Arg
 1           5           10           15
Gly Ser Val Ser Arg Cys Cys Ser His Arg Glu Phe Arg Arg Gln Pro
          20           25           30
Ser Pro Cys Ala Ala Gly Ile Gly Leu Leu His Leu Gly Ser Thr Ala
          35           40           45
Ser Arg Gln Val Lys Pro Pro Arg Leu Pro Pro Pro Pro Trp Gly Arg
          50           55           60
Ser Gly Glu Lys Leu Pro Phe Thr Pro Phe Pro Gly Cys Ser Leu Ser
          65           70           75           80
Arg Trp His Ala Ser Pro Gln Thr Gln Val Ala Phe Gly Pro Arg Trp
          85           90           95
Val Ser Leu Leu Pro Leu Pro His Thr Pro Ser Gly His Trp Asp Pro
          100          105          110
Cys Pro Ser Asp Val Leu Gly Ser Arg Ser Gly Ala Ser His Cys Gly
          115          120          125
Lys Arg Pro Gly Ala Trp Pro Glu Arg Gln Pro Arg Ala Gly Leu Ser
          130          135          140
Pro Glu Ser Trp Ser Arg Ala Arg Glu Ala Pro Ile Pro Pro Arg Pro
          145          150          155          160
Ala Ala Leu Ser Ala Val Ser Ser Ile Cys Ser Ser Phe His Pro Gln
          165          170          175
Leu Cys Val Pro Val Ile Pro Pro Phe Ser Lys Ser Pro Val Pro Ile
          180          185          190
Pro Ser Val Pro Thr His Ser Cys Ser Pro Lys Lys Ile Ser Tyr Arg
          195          200          205
Cys Ile Tyr Asn Leu Trp Ile Arg Gly Leu Ser Ile Tyr Tyr Tyr Trp
          210          215          220
Leu Ile Ile Ile Asn Tyr Val Asn Leu Pro Pro Val Cys Leu Leu Arg
          225          230          235          240

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Trp Val Ser Glu Glu Thr Leu Gly Glu Glu Asp Ala Leu Ala Ser Arg  
                     245                    250                    255  
 Phe Ser Pro Pro Thr Pro Val Leu Ser Gly Arg Gln Trp Ser Gly Ala  
                     260                    265                    270  
 Thr Gly Trp Ala Pro Phe Ser Leu Pro Pro Ser Pro Cys Pro Phe Cys  
                     275                    280                    285  
 Arg Pro Leu Arg Gly Ala Val Cys Leu Ser Leu Ser Leu Leu Pro Leu  
                     290                    295                    300  
 Leu Arg His Trp Leu Pro Gln Ser Glu Gln Pro Ala Gly Gly Arg Arg  
 305                    310                    315                    320  
 Ser Cys Val Gly His Cys Leu Leu Gln Cys Cys Arg Arg Arg Ala Glu  
                     325                    330                    335  
 Ala Pro Pro Gly Gly Phe His Leu Thr Gln Pro  
                     340                    345

<210> 2725

<211> 128

<212> PRT

<213> Homo sapiens

<400> 2725

Met Pro Arg Arg Arg Pro Asn Pro Thr Leu Gly Arg Gly Tyr Arg Asp  
           1                    5                    10                    15  
 Arg Trp Gly Ser Ala Gly Ala Asp Val Gly Thr Val Ser Phe Pro Leu  
                     20                    25                    30  
 Ala Pro Ala Arg Cys Phe Gly Ser Gly His Arg Glu Ala Thr Val Ala  
                     35                    40                    45  
 Arg Arg His Ser Leu Thr Glu Val Ser Leu Ser Pro Ala Pro Ser Thr  
                     50                    55                    60  
 Trp Pro Gly Ala Cys Asn Ala Val Pro Thr Gly Gly Met Asn Gln Asn  
                     65                    70                    75                    80  
 Pro Arg Leu Pro Ser Arg Ser Ser Arg Pro Val Pro Thr Ser Ser Leu  
                     85                    90                    95  
 Pro Ala Cys Gly Asp Phe Glu Ala Leu Ala Thr Ile Asn Tyr Phe Gln  
                     100                    105                    110

Ala His Ser Val Leu Ser Ser Pro Gly Pro Gln Leu Thr Ala Asn His  
 115 120 125

<210> 2726

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2726

Met Leu Val Arg Pro Val Leu Asn Ser Arg Pro Gln Val Val His Pro  
 1 5 10 15  
 Leu Trp Pro Pro Lys Met Leu Gly Leu Gln Ala Leu Ala Thr Thr Pro  
 20 25 30  
 Gly Leu Phe Ile Tyr Leu Leu Met Val Phe Phe Phe Phe Phe Phe Phe  
 35 40 45  
 Phe Phe Glu Met Glu Ser Cys Ser Ile Val Gln Ala Gly Val Gln Cys  
 50 55 60  
 His Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Leu Phe  
 65 70 75 80  
 Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Arg Leu Gln Pro  
 85 90 95  
 His Leu Ala Asp Phe Cys Ile Phe Ser Arg Asp Gly Val Leu Pro Tyr  
 100 105 110  
 Trp Ser Gly Trp Ser Gln Ile Pro Asp Val Arg  
 115 120

<210> 2727

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2727

Met Ala Thr Ser Ala Val Pro Ser Asp Asn Leu Pro Thr Tyr Lys Leu  
 1 5 10 15

Val Val Val Gly Asp Gly Gly Val Gly Lys Ser Ala Leu Thr Ile Gln  
                   20                                  25                                  30  
 Phe Phe Gln Lys Ile Phe Val Pro Asp Tyr Asp Pro Thr Ile Glu Asp  
                   35                                  40                                  45  
 Ser Tyr Leu Lys His Thr Glu Ile Asp Asn Gln Trp Ala Ile Leu Asp  
                   50                                  55                                  60  
 Val Leu Asp Thr Ala Gly Gln Glu Glu Phe Ser Ala Met Arg Glu Gln  
                   65                                  70                                  75                                  80  
 Tyr Met Arg Thr Gly Asp Gly Phe Leu Ile Val Tyr Ser Val Thr Asp  
                                   85                                  90                                  95  
 Lys Ala Ser Phe Glu His Val Asp Arg Phe His Gln Leu Ile Leu Arg  
                   100                                  105                                  110  
 Val Lys Asp Arg Glu Ser Phe Pro Met Ile Leu Val Ala Asn Lys Val  
                   115                                  120                                  125  
 Asp Leu Met His Leu Arg Lys Ile Thr Arg Glu Gln Gly Lys Glu Met  
                   130                                  135                                  140  
 Ala Thr Lys His Asn Ile Pro Tyr Ile Glu Thr Ser Ala Lys Asp Pro  
                   145                                  150                                  155                                  160  
 Pro Leu Asn Val Asp Lys Ala Phe His Asp Leu Val Arg Val Ile Arg  
                   165                                  170                                  175  
 Gln Gln Ile Pro Glu Lys Ser Gln Lys Lys Lys Lys Lys Thr Lys Trp  
                   180                                  185                                  190  
 Arg Gly Asp Arg Ala Thr Gly Thr His Lys Leu Gln Cys Val Ile Leu  
                   195                                  200                                  205

<210> 2728

<211> 106

<212> PRT

<213> Homo sapiens

<400> 2728

Met Thr Cys Asn Val Glu His Leu Phe Ile Cys Leu Phe Ser Ile Cys  
                   1                                  5                                  10                                  15  
 Ile Tyr Ser Leu Met Arg Cys Leu Phe Arg Ser Phe Val His Phe Lys  
                   20                                  25                                  30

Ile Arg Leu Phe Ile Phe Leu Leu Gly Phe Gln Leu Phe Cys Ile Leu  
           35                    40                    45  
 Asp Asn Ser Ser Leu Ser Asp Met Ser Phe Ala Lys Phe Phe Phe Pro  
           50                    55                    60  
 Val Trp Gly Trp Phe Ser His Leu Phe Ser Thr Phe Ser Lys Arg Lys  
           65                    70                    75                    80  
 Tyr Ile Asn Met Thr Val Gly Lys Ile Ala Met Arg Arg His Arg Val  
                           85                    90                    95  
 Ala Leu Ile Ser Arg Asn Ile Thr Pro Pro  
                   100                    105

<210> 2729

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2729

Met Pro Ser Arg Pro Trp Leu Leu Ser Pro Val Ser His Gly Thr Gln  
   1                    5                    10                    15  
 Glu Trp Pro Phe Pro Tyr Leu Gln Ala Ser Val Ser His Pro Phe Ser  
           20                    25                    30  
 Glu Asp Ala Gly Leu Phe Phe Phe Phe Leu Arg Arg Ser Leu Ala Leu  
           35                    40                    45  
 Ser Pro Arg Leu Glu Cys Ser Gly Val Ile Ser Ala His Cys Lys Pro  
           50                    55                    60  
 Arg Leu Pro Gly Ser Arg His Ser Pro Ala Ser Ala Ser Arg Val Ala  
           65                    70                    75                    80  
 Gly Thr Thr Gly Ala Arg His His Ala Trp Leu Ile Phe Cys Ile Phe  
                           85                    90                    95  
 Ser Arg Asp Gly Val Ser Leu Leu Ala Arg Met Val Ser Ile Ser  
           100                    105                    110

<210> 2730

<211> 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2730

Met Ile His Glu Tyr His Val Pro Ile Arg Leu Ile Ile Gly Leu Tyr  
 1 5 10 15  
 Val Leu Met Ile His Glu Tyr His Val Pro Ile Arg Leu Ile Ile Gly  
 20 25 30  
 Leu Tyr Asp Phe Asn Val Phe Val Phe Leu Ser Cys Val Ser Ile Phe  
 35 40 45  
 Lys Ser Lys Leu Arg Arg Cys Val Ala Trp Tyr Tyr Leu Leu Gln Ile  
 50 55 60  
 Tyr Leu Lys Phe Val Asn Ile Phe Gln Asp Phe Cys Gln Pro Phe His  
 65 70 75 80  
 Asn Pro Val Ile Asn Asn Leu Leu Val Asn Lys Asn Val Gly Ala Ser  
 85 90 95  
 Arg Leu Asn Gln Ile Tyr Phe Ser Leu Ser Leu Ile Tyr Ile Cys Ile  
 100 105 110  
 Asn Ile Asn Asn Ser Ile His Leu Phe His Gln Asn Asn Ser Lys Val  
 115 120 125  
 Gly

&lt;210&gt; 2731

&lt;211&gt; 114

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2731

Met Glu Leu Phe Glu Gly Arg Gly Ile Ser Glu Glu Gly Leu Arg Asp  
 1 5 10 15  
 Ser Pro Phe Val Gly Leu Gly His Gln Val Gly Glu Ser Gly Ala Ala  
 20 25 30  
 Gly Thr Leu Glu Gly Leu Ala Glu Pro Ala Phe Pro Val His Pro Ser  
 35 40 45

Gly Arg Ala Gly Ser Arg Cys Arg Leu Pro Ile Ser Ser Leu Ser Ser  
 50 55 60  
 Gly Thr Ala Pro Met Pro Pro Trp Leu Ala Trp Glu Pro Ile Leu Pro  
 65 70 75 80  
 Arg Leu Gly Val Asn Lys Gln Arg Thr Cys Lys Glu Ser Leu Met Gly  
 85 90 95  
 Cys Thr Ala Leu Pro Asn Pro Ala Gln Gly Arg Val Leu Leu Phe Val  
 100 105 110  
 Val Trp

<210> 2732

<211> 144

<212> PRT

<213> Homo sapiens

<400> 2732

Met Phe Val Asp Pro Gln Val Phe Pro Gly Lys Thr Thr Arg Lys Gly  
 1 5 10 15  
 Gln Ala Asp Ala Arg Asp Gly Phe Pro Trp Ser Trp Ala Ala Pro Pro  
 20 25 30  
 Leu Trp Leu Cys Arg Val Gln Ser Pro Ser Trp Leu Leu Ser Trp Ala  
 35 40 45  
 Gly Ile Glu Cys Leu Gln Leu Phe Gln Val His Ser Ala Ser Tyr Arg  
 50 55 60  
 Trp Ile Tyr Leu Ser Gly Ala Cys Asp Glu Lys Gly Cys Arg Glu Asp  
 65 70 75 80  
 Leu Ser His Ala Leu Glu Ala Phe Phe Leu Leu Ser Trp Gly Leu Thr  
 85 90 95  
 Phe Gly Tyr Leu Leu Leu Thr Gln Ile Ser Ala Thr Gly Leu Asn Phe  
 100 105 110  
 Ser Ser Glu Asn Gly Ile Phe Leu Phe Tyr His Ile Val Arg Leu Gln  
 115 120 125  
 Ile Phe Arg Thr Phe Met Leu Cys Phe Pro Tyr Lys Thr Glu Cys Leu  
 130 135 140

&lt;210&gt; 2733

&lt;211&gt; 474

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2733

```

Met Asp Arg Asn Pro Ser Pro Pro Pro Pro Gly Arg Asp Lys Glu
 1             5             10             15
Glu Glu Glu Glu Val Ala Gly Gly Asp Cys Ile Gly Ser Thr Val Tyr
             20             25             30
Ser Lys His Trp Leu Phe Gly Val Leu Ser Gly Leu Ile Gln Ile Val
             35             40             45
Ser Pro Glu Asn Thr Lys Ser Ser Ser Asp Asp Glu Glu Gln Leu Thr
             50             55             60
Glu Leu Asp Glu Glu Met Glu Asn Glu Ile Cys Arg Val Trp Asp Met
             65             70             75             80
Ser Met Asp Glu Asp Val Ala Leu Phe Leu Gln Glu Phe Asn Ala Pro
             85             90             95
Asp Ile Phe Met Gly Val Leu Ala Lys Ser Lys Cys Pro Arg Leu Arg
             100            105            110
Glu Ile Cys Val Gly Ile Leu Gly Asn Met Ala Cys Phe Gln Glu Ile
             115            120            125
Cys Val Ser Ile Ser Ser Asp Lys Asn Leu Gly Gln Val Leu Leu His
             130            135            140
Cys Leu Tyr Asp Ser Asp Pro Pro Thr Leu Leu Glu Thr Ser Arg Leu
             145            150            155            160
Leu Leu Thr Cys Leu Ser Gln Ala Glu Val Ala Ser Val Trp Val Glu
             165            170            175
Arg Ile Gln Glu His Pro Ala Ile Tyr Asp Ser Ile Cys Phe Ile Met
             180            185            190
Ser Ser Ser Thr Asn Val Asp Leu Leu Val Lys Val Gly Glu Val Val
             195            200            205
Asp Lys Leu Phe Asp Leu Asp Glu Lys Leu Met Leu Glu Trp Val Arg
             210            215            220

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&lt;211&gt; 104



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2734

```

Met Gln Lys Phe Arg Lys Met Asn Glu Thr His Tyr Tyr Tyr Ser Phe
 1             5             10             15
Ser Pro Trp Leu Ser Ser Ser Val Thr Ala Pro Ser Met Val Ala Pro
          20             25             30
Val Thr Phe Ala Ser Ile Val Glu Glu Glu Leu Gln Gln Glu Ala Ala
          35             40             45
Leu Ile Arg Ser Arg Glu Lys Pro Leu Ala Leu Ile Gln Ile Glu Glu
          50             55             60
His Ala Ile Gln Asp Leu Leu Val Phe Tyr Glu Ala Phe Gly Asn Pro
 65             70             75             80
Glu Glu Phe Val Ile Val Glu Arg Thr Pro Gln Gly Pro Leu Ala Val
          85             90             95
Pro Met Trp Asn Lys His Gly Cys
          100

```

&lt;210&gt; 2735

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2735

```

Met Asn Gly Ala Gly Phe Leu Lys His Cys Leu Glu Glu Arg Gln Gln
 1             5             10             15
Lys Cys Leu Met Asn Pro Thr Gly Leu Leu Gly Cys Ser Pro Leu Glu
          20             25             30
Thr Ser Asn Asn Val Cys Arg Asn Pro Gly His Val Glu Arg Pro His
          35             40             45
Ile Arg Val Gln Leu Arg Ser Gln Leu Thr Ala Gly Ile Asp Ile Met
          50             55             60
Phe Thr Leu Gly Glu Ala Ser Cys His Ala Val Arg Thr Leu Gly Gln
 65             70             75             80

```

Ser Tyr Glu Glu Ala Arg Val Val Arg Lys Arg Gly Leu Gln Pro Thr  
                     85                    90                    95  
 Ala Ile Asp Gly Val Leu Leu Cys Phe Pro Val Gly Val Gln  
                     100                    105                    110

<210> 2736

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2736

Met Cys Thr Val Asp Val Glu Gly Phe Asp Asp Val Gly Glu Thr Leu  
   1                    5                    10                    15  
 Ser Asp Ala Val Arg Asp Gly Leu Gly Thr Ile Leu Arg Gly Gly Ala  
                     20                    25                    30  
 Glu Glu Gly Ser Tyr Asp Asn Trp Pro His Thr Arg Lys Ser Trp Gly  
                     35                    40                    45  
 Pro Leu Ser Pro Gly His Gln Arg Glu Leu Trp Thr Gln Pro Asp Pro  
                     50                    55                    60  
 Trp Thr Glu Val Leu Ser Gly His Lys Gly Asp Ala Gly Ala Cys Gly  
                     65                    70                    75                    80  
 Cys Cys Cys Phe Cys Ser Gln Phe Ile Asn Ala Arg Cys Ala His Pro  
                     85                    90                    95  
 Leu Cys Leu Ala Arg Gly Leu Asp Arg Arg Ala Ser Glu Glu Met Pro  
                     100                    105                    110  
 Ile Leu Gln Ala Leu Cys Leu Leu Pro Lys Val Ser Thr Arg Ser Ile  
                     115                    120                    125  
 Thr Val Pro Ser Pro Gln Arg Ser Ala Pro Arg Ala Ser Leu Cys Pro  
                     130                    135                    140  
 Pro His Lys Gly Lys Ser Pro  
                     145                    150

<210> 2737

<211> 156

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2737

Met Val Pro Val Phe Thr Ser Ser Ala Leu Pro Val Lys Asp Val Glu  
 1 5 10 15  
 Asp Lys Pro Glu Gln Gln Thr Arg Thr Arg Glu Thr Asp Lys Ser Pro  
 20 25 30  
 Thr Ser Thr Glu Pro Arg Gln Gln Pro Ser Ala Leu Phe Ala Arg Gly  
 35 40 45  
 Asn Arg Lys Ala Val Lys Ser Pro Gln Arg Ser Ser Ser Lys Ile Lys  
 50 55 60  
 Glu Asn Lys His Pro Phe Ala Leu Tyr Gly Trp Gly Glu Lys Gln Thr  
 65 70 75 80  
 Asp Thr Gly Ser Gln Lys Thr His Asn Val Cys Ala Ser Ala Pro Val  
 85 90 95  
 His Glu Ile His Glu Ser Ala Leu Arg Ala Lys Asn Arg Arg Gln Val  
 100 105 110  
 Glu Lys Arg Lys Leu Val Ala Gln Arg Gln Arg Ala His Ser Val Asp  
 115 120 125  
 Val Glu Lys Asn Arg Lys Met Lys Ala Ser Ser Ser Glu Asn Pro Trp  
 130 135 140  
 Met Thr Glu Tyr Met Arg Cys Tyr Ser Ala Arg Ala  
 145 150 155

&lt;210&gt; 2738

&lt;211&gt; 676

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2738

Met Val Ser Asn Lys Glu Met Pro Lys Glu Pro Glu Asp Thr Tyr Ala  
 1 5 10 15  
 Lys Gly Glu Asp Phe Thr Val Thr Ser Lys Pro Ala Gly Leu Ser Glu

20	25	30
Asp Gln Lys Thr Ala Phe Ser Ile Ile Ser Glu Gly Cys Glu Ile Leu		
35	40	45
Asn Ile His Ala Pro Ala Phe Ile Ser Ser Ile Asp Gln Glu Glu Ser		
50	55	60
Glu Gln Met Gln Asp Lys Leu Glu Tyr Leu Glu Glu Lys Ala Ser Phe		
65	70	75
Lys Thr Ile Pro Leu Pro Asp Asp Ser Glu Thr Val Ala Cys His Lys		
85	90	95
Thr Leu Lys Ser Arg Leu Glu Asp Glu Lys Val Thr Pro Leu Lys Glu		
100	105	110
Asn Lys Gln Lys Glu Thr His Lys Thr Lys Glu Glu Ile Ser Thr Asp		
115	120	125
Ser Glu Thr Asp Leu Ser Phe Ile Gln Pro Thr Ile Pro Ser Glu Glu		
130	135	140
Asp Tyr Phe Glu Lys Tyr Thr Leu Ile Asp Tyr Asn Ile Ser Pro Asp		
145	150	155
Pro Glu Lys Gln Lys Ala Pro Gln Lys Leu Asn Val Glu Glu Lys Leu		
165	170	175
Ser Lys Glu Val Thr Glu Glu Thr Ile Ser Phe Pro Val Ser Ser Val		
180	185	190
Glu Ser Ala Leu Glu His Glu Tyr Asp Leu Val Lys Leu Asp Glu Ser		
195	200	205
Phe Tyr Gly Pro Glu Lys Gly His Asn Ile Leu Ser His Pro Glu Thr		
210	215	220
Gln Ser Gln Asn Ser Ala Asp Arg Asn Val Ser Lys Asp Thr Lys Arg		
225	230	235
Asp Val Asp Ser Lys Ser Pro Gly Met Pro Leu Phe Glu Ala Glu Glu		
245	250	255
Gly Val Leu Ser Arg Thr Gln Ile Phe Pro Thr Thr Ile Lys Val Ile		
260	265	270
Asp Pro Glu Phe Leu Glu Glu Pro Pro Ala Leu Ala Phe Leu Tyr Lys		
275	280	285
Asp Leu Tyr Glu Glu Ala Val Gly Glu Lys Lys Lys Glu Glu Glu Thr		
290	295	300
Ala Ser Glu Gly Asp Ser Val Asn Ser Glu Ala Ser Phe Pro Ser Arg		

305	310	315	320
Asn Ser Asp Thr Asp Asp Gly Thr Gly Ile Tyr Phe Glu Lys Tyr Ile			
325	330	335	
Leu Lys Asp Asp Ile Leu His Asp Thr Ser Leu Thr Gln Lys Asp Gln			
340	345	350	
Gly Gln Gly Leu Glu Glu Lys Arg Val Gly Lys Asp Asp Ser Tyr Gln			
355	360	365	
Pro Ile Ala Ala Glu Gly Glu Ile Trp Gly Lys Phe Gly Thr Ile Cys			
370	375	380	
Arg Glu Lys Ser Leu Glu Glu Gln Lys Gly Val Tyr Gly Glu Gly Glu			
385	390	395	400
Ser Val Asp His Val Glu Thr Val Gly Asn Val Ala Met Gln Lys Lys			
405	410	415	
Ala Pro Ile Thr Glu Asp Val Arg Val Ala Thr Gln Lys Ile Ser Tyr			
420	425	430	
Ala Val Pro Phe Glu Asp Thr His His Val Leu Glu Arg Ala Asp Glu			
435	440	445	
Ala Gly Ser Gln Gly Asn Glu Val Gly Asn Ala Ser Pro Glu Val Asn			
450	455	460	
Leu Asn Val Pro Val Gln Val Ser Phe Pro Glu Glu Glu Phe Ala Ser			
465	470	475	480
Gly Ala Thr His Val Gln Glu Thr Ser Leu Glu Glu Pro Lys Ile Leu			
485	490	495	
Val Pro Pro Glu Pro Ser Glu Glu Arg Leu Arg Asn Ser Pro Val Gln			
500	505	510	
Asp Glu Tyr Glu Phe Thr Glu Ser Leu His Asn Glu Val Val Pro Gln			
515	520	525	
Asp Ile Leu Ser Glu Glu Leu Ser Ser Glu Ser Thr Pro Glu Asp Val			
530	535	540	
Leu Ser Gln Gly Lys Glu Ser Phe Glu His Ile Ser Glu Asn Glu Phe			
545	550	555	560
Ala Ser Glu Ala Glu Gln Ser Thr Pro Ala Glu Gln Lys Glu Leu Gly			
565	570	575	
Ser Glu Arg Lys Glu Glu Asp Gln Leu Ser Ser Glu Val Val Thr Glu			
580	585	590	
Lys Ala Gln Lys Glu Leu Lys Lys Ser Gln Ile Asp Thr Tyr Cys Tyr			

595                      600                      605  
 Thr Cys Lys Cys Pro Ile Ser Ala Thr Asp Lys Val Phe Gly Thr His  
 610                      615                      620  
 Lys Asp His Glu Val Ser Thr Leu Asp Thr Ala Ile Ser Ala Val Lys  
 625                      630                      635                      640  
 Val Gln Leu Ala Glu Phe Leu Glu Asn Leu Gln Glu Lys Ser Leu Arg  
 645                      650                      655  
 Ile Glu Ala Phe Val Ser Glu Ile Glu Ser Phe Phe Asn Thr Ile Glu  
 660                      665                      670  
 Glu Asn Cys Ser  
 675

<210> 2739

<211> 281

<212> PRT

<213> Homo sapiens

<400> 2739

Met Arg Ser Asn Ser Thr Leu Asn Lys His Asn Glu Asn Tyr Lys Gln  
 1                      5                      10                      15  
 Lys Lys Leu Gly Glu Pro Ser Cys Asn Lys Leu Lys Asn Ile Leu Tyr  
 20                      25                      30  
 Asn Gly Ser Asn Ile Gln Leu Ser Lys Ile Cys Leu Ser His Ser Glu  
 35                      40                      45  
 Glu Phe Ile Lys Lys Glu Pro Leu Ser Asp Thr Thr Ser Gln Cys Met  
 50                      55                      60  
 Lys Asp Val Gln Ile Ile Leu Asp Ser Asn Ile Thr Lys Asp Thr Asn  
 65                      70                      75                      80  
 Val Asp Lys Val Gln Leu Gln Asn Cys Lys Trp Tyr Gln Glu Asn Ala  
 85                      90                      95  
 Leu Leu Asp Lys Val Thr Asp Ala Glu Ile Lys Lys Gly Leu Leu His  
 100                      105                      110  
 Cys Thr Gln Lys Lys Ile Val Pro Gly His Ser Asn Val Pro Val Ser  
 115                      120                      125  
 Ser Ser Ala Ala Glu Lys Glu Glu Glu Val His Ala Arg Leu Leu His

130	135	140	
Cys Val Ser Lys Gln Lys Ile Leu Leu Ser Gln Ala Arg Arg Thr Gln			
145	150	155	160
Lys His Leu Gln Met Leu Leu Ala Lys His Val Val Lys His Tyr Gly			
	165	170	175
Gln Gln Met Lys Leu Ser Met Lys His Gln Leu Pro Lys Met Lys Thr			
	180	185	190
Phe His Glu Pro Thr Thr Ile Leu Gly Asn Ser Leu Pro Lys Cys Thr			
	195	200	205
Glu Ile Lys Pro Glu Val Asn Thr Leu Thr Ala Glu Asn Lys Leu Trp			
	210	215	220
Asp Asp Ala Lys Asn Gly Phe Ala Arg Cys Thr Ala Ala Glu Ile Gln			
225	230	235	240
Arg Phe Ala Phe Ser Ala Thr Gly Leu Leu Ser His Val Glu Glu Gly			
	245	250	255
Leu Asp Ser Asp Ala Thr Asp Ser Ser Ser Asp Asp Asp Leu Asp Glu			
	260	265	270
Tyr Thr Leu Arg Lys Asn Val Ala Val			
	275	280	

&lt;210&gt; 2740

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2740

Met Pro Gly Ile Lys Val Gly Arg Ser Arg Ala Gln Leu Pro Leu Lys			
1	5	10	15
Val Glu Val Glu Glu Val Thr Val Pro Glu Gly Phe Val Gln Lys Leu			
	20	25	30
Asn Asp His Leu Leu Leu Val Tyr Thr Gly Lys Thr Arg Leu Ala Arg			
	35	40	45
Asn Leu Leu Gln Asp Val Leu Arg Ser Trp Tyr Ala Arg Leu Pro Ala			
	50	55	60
Val Val Gln Asn Ala His Ser Leu Val Arg Gln Thr Glu Glu Cys Ala			

65                      70                      75                      80  
 Glu Gly Phe Arg Gln Gly Glu Gly Leu Pro Leu Gly Gly Ser Gly His  
                          85                      90                      95  
 Trp Glu Arg Val Phe Cys His Leu Trp Val  
                          100                      105

<210> 2741

<211> 303

<212> PRT

<213> Homo sapiens

<400> 2741

Met His Pro His Gly Ser Pro Thr Leu His Arg Arg Lys Leu Arg Leu  
 1                      5                      10                      15  
 Val Arg Gly Val Leu Ser Cys Arg Thr Ser Trp Pro Asp Pro Arg Gln  
                          20                      25                      30  
 Val Ser Leu Gln Ser Pro Ser Ser Ser Pro Pro His Arg Pro Thr Ser  
                          35                      40                      45  
 Cys Trp Phe Gln Gly Arg Ser Pro Leu Cys Gln Ala Leu Ile Ser Trp  
                          50                      55                      60  
 Trp Tyr Pro Glu Pro Met Leu Ser Pro Gln Glu Gly Thr Ala Gln Pro  
 65                      70                      75                      80  
 Pro Ser Leu Ser Ala Gly Gln Lys His Leu Cys Val Thr Ser Leu Leu  
                          85                      90                      95  
 Ile Cys Gln Gly Leu Leu Trp Val Gly Thr Asp Gln Gly Val Ile Val  
                          100                      105                      110  
 Leu Leu Pro Val Pro Arg Leu Glu Gly Ile Pro Lys Ile Thr Gly Lys  
                          115                      120                      125  
 Gly Met Val Ser Leu Asn Gly His Cys Gly Pro Val Ala Phe Leu Ala  
                          130                      135                      140  
 Val Ala Thr Ser Ile Leu Ala Pro Asp Ile Leu Arg Ser Asp Gln Glu  
 145                      150                      155                      160  
 Glu Ala Glu Gly Pro Arg Ala Glu Glu Asp Lys Pro Asp Gly Gln Ala  
                          165                      170                      175  
 His Glu Pro Met Pro Asp Ser His Val Gly Arg Glu Leu Thr Arg Lys



180 185 190  
 Lys Gly Ile Leu Leu Gln Tyr Arg Leu Arg Ser Thr Ala His Leu Pro  
 195 200 205  
 Gly Pro Leu Leu Ser Met Arg Glu Pro Ala Pro Ala Asp Gly Ala Ala  
 210 215 220  
 Leu Glu His Ser Glu Glu Asp Gly Ser Ile Tyr Glu Met Ala Asp Asp  
 225 230 235 240  
 Pro Asp Val Trp Val Arg Ser Arg Pro Cys Ala Arg Asp Ala His Arg  
 245 250 255  
 Lys Glu Ile Cys Ser Val Ala Ile Ile Ser Gly Gly Gln Gly Tyr Arg  
 260 265 270  
 Asn Phe Gly Ser Ala Leu Gly Ser Ser Gly Arg Gln Ala Pro Cys Gly  
 275 280 285  
 Glu Thr Asp Ser Thr Leu Leu Ile Trp Gln Val Pro Leu Met Leu  
 290 295 300

<210> 2742

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2742

Met Pro Ser Ser Leu Gly Leu Cys Ile Cys Ile Ser Phe Ser Phe Leu  
 1 5 10 15  
 Leu Tyr Thr Ala Ala Phe Gln Phe Phe Leu Val Phe Leu Ser Leu Pro  
 20 25 30  
 Pro Ala Ser Ser Trp Ser Leu Ser Cys Ser Val Ile Leu Leu Ser Leu  
 35 40 45  
 Ile Ser Cys Pro Gln Val Ser Val Gly Leu Cys Ser Pro Ala Ala His  
 50 55 60  
 Ser Cys His Gly Thr His His Cys Phe Gln Leu Phe Pro Thr Ser Tyr  
 65 70 75 80  
 Pro Asn Tyr Ala Ile Val Pro Ile Ser Thr Leu Ile Gln Ala Arg Gln  
 85 90 95  
 Lys Ala Val Pro Trp Ala Ala Pro His Lys Pro Glu His Cys Arg Ser

	100		105		110
Val	Ser	Phe	Phe	Thr	Leu
			Cys	Pro	Glu
				Gly	Arg
				Ala	Arg
				Val	Val
				Phe	
	115		120		125
Phe					

&lt;210&gt; 2743

&lt;211&gt; 200

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2743

Met	Ala	Asp	Glu	Glu	Ala	Glu	Gln	Glu	Arg	Leu	Ser	Cys	Gly	Glu	Gly
1				5				10					15		
Gly	Cys	Val	Ala	Glu	Leu	Gln	Arg	Leu	Gly	Glu	Arg	Leu	Gln	Glu	Leu
			20					25					30		
Glu	Leu	Gln	Leu	Arg	Glu	Ser	Arg	Val	Pro	Ala	Val	Glu	Ala	Ala	Thr
			35					40					45		
Asp	Tyr	Cys	Gln	Gln	Leu	Cys	Gln	Thr	Leu	Leu	Glu	Tyr	Ala	Glu	Lys
		50				55					60				
Trp	Lys	Thr	Ser	Glu	Asp	Pro	Leu	Pro	Leu	Leu	Glu	Val	Tyr	Thr	Val
	65				70				75					80	
Ala	Ile	Gln	Ser	Tyr	Val	Lys	Ala	Arg	Pro	Tyr	Leu	Thr	Ser	Glu	Cys
				85					90					95	
Glu	Asn	Val	Ala	Leu	Val	Leu	Glu	Arg	Leu	Ala	Leu	Ser	Cys	Val	Glu
			100						105					110	
Leu	Leu	Leu	Cys	Leu	Pro	Val	Glu	Leu	Ser	Asp	Lys	Gln	Trp	Glu	Gln
			115						120					125	
Phe	Gln	Thr	Leu	Val	Gln	Val	Ala	His	Glu	Lys	Leu	Met	Glu	Asn	Gly
		130					135						140		
Ser	Cys	Glu	Leu	His	Phe	Leu	Ala	Thr	Leu	Ala	Gln	Glu	Thr	Gly	Val
	145					150					155				160
Trp	Lys	Asn	Pro	Val	Leu	Cys	Thr	Ile	Leu	Ser	Gln	Glu	Pro	Leu	Asp
				165					170						175

Lys Asp Lys Gly Phe His Pro Gly Tyr His Ile Thr Phe Ser Arg His  
                   180                  185                  190  
 Val Phe Leu Gly Ser Ser Trp Leu  
                   195                  200

<210> 2744

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2744

Met Glu Met Gly Gly Val Trp Gly Lys Ser Arg Ser Leu Ser Gly Ser  
   1                  5                  10                  15  
 Ala Pro Ala Val Lys Tyr Leu Ala Cys Cys Ser Val Pro Val Ser Ser  
                   20                  25                  30  
 Thr Gln Ala Gly Leu Pro Asp His Ser Ala Leu Ser Ala Pro Pro Trp  
                   35                  40                  45  
 Leu Trp Ser Glu Pro Val Glu Arg Gly Thr Leu Ser Gln Gly Pro Ser  
                   50                  55                  60  
 His Ile Ala Ala Ala Ala Ala Pro Ser Val Ser Ser Leu His Leu Leu  
   65                  70                  75                  80  
 Thr Gly Pro Pro Ala Arg His Leu Leu His Ser Thr Thr Ile Thr Trp  
                   85                  90                  95  
 Val Leu Leu Ala Leu Ala Trp Leu Ala Tyr Leu Val Ile Lys Ser  
                   100                  105                  110

<210> 2745

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2745

Met Gly Gln Gly Lys Arg Val Asp Leu Gly Leu Gln Ser Pro Cys Ala  
   1                  5                  10                  15

Leu Ser Gln Trp Asn Phe Pro Leu Leu Met Leu Val Trp Lys Leu Ala  
                   20                  25                  30  
 Pro Ala Leu Cys Cys Gly Asn Thr Met Val Leu Lys Pro Ala Glu Gln  
                   35                  40                  45  
 Thr Pro Leu Thr Ala Leu Tyr Leu Gly Ser Leu Ile Lys Glu Val Arg  
                   50                  55                  60  
 His Pro Lys Arg Lys Tyr His Met Phe Leu Val Thr Phe Pro Leu Leu  
                   65                  70                  75                  80  
 Gly Thr Arg Pro Pro Ser Arg Asp Gly Thr Val Ala Asp Cys Trp Gln  
                   85                  90                  95  
 Ser Ser Gly Lys Gly Met Thr Ser Ser Val Leu Phe Gly Asp Cys Thr  
                   100                  105                  110  
 Phe Phe Leu Leu Leu Val Ala Thr Glu Leu Glu Lys Leu His Ser Ser  
                   115                  120                  125  
 Gln Trp Ser  
                   130

<210> 2746

<211> 148

<212> PRT

<213> Homo sapiens

<400> 2746

Met Glu Ile Leu Asn Val Thr Leu Val Pro Tyr Gly Asn Ala Gln Glu  
           1                  5                  10                  15  
 Gln Asn Val Ser Gly Arg Trp Glu Phe Lys Cys Gln His Gly Glu Glu  
                   20                  25                  30  
 Glu Cys Lys Phe Asn Lys Val Glu Ala Cys Val Leu Asp Glu Leu Asp  
                   35                  40                  45  
 Met Glu Leu Ala Phe Leu Thr Ile Val Cys Met Glu Glu Phe Glu Asp  
                   50                  55                  60  
 Met Glu Arg Ser Leu Pro Leu Cys Leu Gln Leu Tyr Ala Pro Gly Leu  
                   65                  70                  75                  80  
 Ser Pro Asp Thr Ile Met Glu Cys Ala Met Gly Asp Arg Gly Met Gln  
                   85                  90                  95

Leu Met His Ala Asn Ala Gln Arg Thr Asp Ala Leu Gln Pro Pro His  
                   100                  105                  110  
 Glu Tyr Val Pro Trp Val Thr Val Asn Gly Val Arg Ile Phe Leu Ala  
                   115                  120                  125  
 Leu Ser Leu Thr Leu Ile Val Pro Trp Ser Gln Gly Trp Thr Arg Gln  
                   130                  135                  140  
 Arg Asp Gln Arg  
 145

<210> 2747

<211> 124

<212> PRT

<213> Homo sapiens

<400> 2747

Met Gln Arg Ala Gly Asn Pro Val Leu Thr Leu Pro Gly Met Pro Phe  
   1                  5                  10                  15  
 Gly Lys Thr Ser Val Pro Glu Ala Glu Gly Gln Cys Leu Leu Leu Pro  
                   20                  25                  30  
 Gly Ala Gln Leu Leu Ser Gly Pro Gln Thr His Ala Ala Cys Pro Gly  
                   35                  40                  45  
 Ala Ser Pro Asn Ser Phe Val Tyr Phe Pro Val Gly Asn Val Leu Ile  
                   50                  55                  60  
 Pro Leu Gly Cys Lys Asp Gly Thr Thr Pro Glu Gly Trp Thr Val Ser  
   65                  70                  75                  80  
 Arg Cys Pro Ala Asn Ile Cys Gly Ile Ser Ser Thr Gln Gln Gly Lys  
                   85                  90                  95  
 Arg Trp Arg Gln Lys Pro Leu Gln Ala Pro Glu Gly Thr His Phe Pro  
                   100                  105                  110  
 Asp Pro Val His Leu Pro Asp Pro Arg Pro Pro Pro  
                   115                  120

<210> 2748

<211> 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2748

```

Met Ser Leu Met Pro Lys Met His Leu Leu Phe Pro Leu Thr Leu Val
  1              5              10              15
Arg Ser Phe Trp Ser Asp Met Met Asp Ser Ala Gln Ser Phe Ile Thr
      20              25              30
Ser Ser Trp Thr Phe Tyr Leu Gln Ala Asp Asp Gly Lys Ile Val Ile
      35              40              45
Phe Gln Ser Lys Pro Glu Ile Gln Tyr Ala Pro His Leu Glu Gln Glu
      50              55              60
Pro Thr Asn Leu Arg Glu Ser Ser Leu Ser Lys Met Ser Ser Asp Leu
      65              70              75              80
Gln Met Arg Asn Ser Gln Ala His Arg Asn Phe Leu Glu Asp Gly Glu
      85              90              95
Ser Asp Gly Phe Leu Arg Cys Leu Ser Leu Asn Ser Gly Trp Ile Leu
      100             105             110
Thr Thr Thr Leu Val Leu Ser Val Met Val Leu Leu Trp Ile Cys Cys
      115             120             125
Ala Thr Val Ala Thr Ala Val Glu Gln Tyr Val Pro Ser Glu Lys Leu
      130             135             140
Ser Ile Tyr Gly Asp Leu Glu Phe Met Asn Glu Gln Lys Leu Asn Arg
      145             150             155             160
Tyr Pro Ala Ser Ser Leu Val Val Val Arg Ser Lys Thr Glu Asp His
      165             170             175
Glu Glu Ala Gly Pro Leu Pro Thr Lys Val Asn Leu Ala His Ser Glu
      180             185             190
Ile

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&lt;210&gt; 2749

&lt;211&gt; 132

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2749

Met Ser Val Leu Arg Pro Leu Asp Lys Leu Pro Gly Leu Asn Thr Ala  
 1 5 10 15  
 Thr Ile Leu Leu Val Gly Thr Glu Asp Ala Leu Leu Gln Gln Leu Ala  
 20 25 30  
 Asp Ser Met Leu Lys Glu Asp Cys Ala Ser Glu Leu Lys Val His Leu  
 35 40 45  
 Ala Lys Ser Leu Pro Leu Pro Ser Ser Val Asn Arg Pro Arg Ile Asp  
 50 55 60  
 Leu Ile Val Phe Val Val Asn Leu His Ser Lys Tyr Ser Leu Gln Asn  
 65 70 75 80  
 Thr Glu Glu Ser Leu Arg His Val Asp Ala Ser Phe Phe Leu Gly Lys  
 85 90 95  
 Val Cys Phe Leu Ala Thr Gly Gly Lys Tyr Val Pro Arg Leu Leu Leu  
 100 105 110  
 Pro Thr Pro Ser Gln Gly Lys Ala Gly Ala Ala Val Gly Phe Leu Leu  
 115 120 125  
 Arg His Pro Gly  
 130

&lt;210&gt; 2750

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2750

Met Thr Arg Arg Gly Val Cys Val Cys Val His Val Cys Ile Cys Val  
 1 5 10 15  
 Leu Val Cys Ser His Ser Ile Pro Leu Cys Ala Cys Val Leu Ala Ala  
 20 25 30  
 Trp Asp Ser Ala Val Phe Trp Glu Gly Gly Gly Glu Leu Ser His Val  
 35 40 45  
 Leu Tyr Tyr Ile Phe Phe Glu Met Gly Ser Cys Ser Val Ala Gln Ala  
 50 55 60

Gly Val Gln Trp Cys Asp Leu Ser Ser Leu Gln Leu Leu Pro Pro Gly  
 65 70 75 80  
 Ser Ser Ser Ser Pro Ala Ser Ala Cys Gln Ile Ala Gly Ile Thr Gly  
 85 90 95  
 Val Tyr His His Ser Gln Leu Ile Phe Val Phe Leu Val Glu Met Gly  
 100 105 110  
 Phe Tyr His Val Gly Gln Ala Gly Leu Glu Leu Leu Ala Ser Gly Asp  
 115 120 125  
 Pro Pro Ala Leu Ala Ser Gln Ser Ala Glu Ile Thr Gly Val Asn Tyr  
 130 135 140  
 Arg Ala Trp Pro His Val Leu Tyr Phe Phe Gln Val Ile Leu Lys Ser  
 145 150 155 160  
 Thr Thr Arg Asn Val Gly Met Gly Phe Gly Met Tyr Asn Gly Asn Arg  
 165 170 175

<210> 2751

<211> 169

<212> PRT

<213> Homo sapiens

<400> 2751

Met Phe Ala Glu Gln Met Asn Ala Trp Ser Arg Pro Gln Ser Arg Val  
 1 5 10 15  
 Trp Trp Gln Gly Gly Ser Gly Arg Glu Phe Thr Gln Gln Pro Gly Asp  
 20 25 30  
 Arg Gly Glu Gln Glu Ala Arg Gly Tyr Pro Ser Met Ser Gly Thr Arg  
 35 40 45  
 Gly Pro Trp Trp Ala Ala Val Trp Glu Thr His Gly Ser Trp Pro His  
 50 55 60  
 Leu Arg Pro Pro Ser Ser Leu Ile Thr Cys Leu Pro Pro Leu Gln Arg  
 65 70 75 80  
 Phe Arg Phe Cys Gly Asp Leu Asp Cys Pro Asp Trp Val Leu Ala Glu  
 85 90 95  
 Ile Ser Thr Leu Ala Lys Met Val Glu Cys Thr Gly Ser Ser Leu Gly  
 100 105 110



Gly Gly Gly Val Leu Gly Val Gly Ile Val Gly Val Glu Asp Gly Glu  
           115                  120                  125  
 Val Ser Leu Gly Leu Gly Pro Gln Cys Ser Gln Pro Val Leu Pro Cys  
           130                  135                  140  
 Phe Val Thr Leu Ile Ser Gly Trp Pro Ala Leu Ser Leu Ser Pro Gly  
 145                  150                  155                  160  
 Arg Arg Gly Glu Val Cys Gln Pro Gly  
                           165

<210> 2752

<211> 270

<212> PRT

<213> Homo sapiens

<400> 2752

Met Pro Thr Arg Gly Glu Glu Ala Val Leu Ser Arg Pro Leu Leu Pro  
   1                  5                  10                  15  
 Arg Pro Pro Arg Arg Pro Gly Leu Gly Cys Gly Gly Pro Lys Ala Pro  
           20                  25                  30  
 Ala Leu Leu Val Ile Ser Arg Pro Glu Pro Arg Gln Ala Ser Ala Pro  
           35                  40                  45  
 Ser Arg Lys Pro Gly Arg Pro Gly Ala Thr Gly Lys Lys Ala Arg Ser  
           50                  55                  60  
 Arg Lys Pro Gly Cys Cys Gly Pro Thr Asn His Lys Ser Tyr Glu Arg  
   65                  70                  75                  80  
 Gly Ser Arg Arg Arg Glu Lys Ser Gln Tyr Arg Leu Val Pro Ala Thr  
                   85                  90                  95  
 Phe Gly Lys Lys Lys Phe Leu Thr Arg Arg Gly Ala Cys Phe Ala Leu  
           100                  105                  110  
 Gly Arg Val Ala Leu Ala Gly Ala Trp Val Thr Pro Ile Pro Pro Trp  
           115                  120                  125  
 Arg Leu Thr Ser Cys Arg Gly Gly Pro Pro Ala Ser Ser Trp Pro Arg  
           130                  135                  140  
 Ala Gln Gly Ala Ser Cys Pro Gly Thr Ala Asp Pro Gly Ile Ala Ser  
 145                  150                  155                  160

Pro Gly Arg Ala Gly Gly Glu Gly Gly Arg Gly Gly Arg Gly Thr Ala  
                     165                    170                    175  
 Gly Cys Ser Pro Pro Trp Gly Ile Arg Gly Ala Glu Pro Arg Trp Arg  
                     180                    185                    190  
 Pro Arg Gly Pro Gly Ser Arg Glu Arg Thr Ala Glu Trp Pro Pro Glu  
                     195                    200                    205  
 Leu Gly Leu Leu Leu Ser Pro Thr His Leu Pro Ser Asp Thr Val Ser  
                     210                    215                    220  
 Thr Leu Gln Ala Ala Gly Arg Gly Gly Ala Pro Asn Gln Phe Ala Pro  
 225                    230                    235                    240  
 Gly Leu Ser Ala Arg Leu Pro His Gly Asn Arg Thr Ala Thr Gly Thr  
                     245                    250                    255  
 Asp Gly Val Thr Tyr Leu Pro Met Gln Arg Gln Lys Leu Ala  
                     260                    265                    270

<210> 2753

<211> 814

<212> PRT

<213> Homo sapiens

<400> 2753

Met Ala Gly Val Gly Ala Ala Ala Leu Ser Leu Leu Leu His Leu Gly  
           1                    5                    10                    15  
 Ala Leu Ala Leu Ala Ala Gly Ala Glu Gly Gly Ala Val Pro Arg Glu  
                     20                    25                    30  
 Pro Pro Gly Gln Gln Thr Thr Ala His Ser Ser Val Leu Ala Gly Asn  
                     35                    40                    45  
 Ser Gln Glu Gln Trp His Pro Leu Arg Glu Trp Leu Gly Arg Leu Glu  
           50                    55                    60  
 Ala Ala Val Met Glu Leu Arg Glu Gln Asn Lys Asp Leu Gln Thr Arg  
           65                    70                    75                    80  
 Val Arg Gln Leu Glu Ser Cys Glu Cys His Pro Ala Ser Pro Gln Cys  
                     85                    90                    95  
 Trp Gly Leu Gly Arg Ala Trp Pro Glu Gly Ala Arg Trp Glu Pro Asp  
                     100                    105                    110

Ala Cys Thr Ala Cys Val Cys Gln Asp Gly Ala Ala His Cys Gly Pro			
115	120	125	
Gln Ala His Leu Pro His Cys Arg Gly Cys Ser Gln Asn Gly Gln Thr			
130	135	140	
Tyr Gly Asn Gly Glu Thr Phe Ser Pro Asp Ala Cys Thr Thr Cys Arg			
145	150	155	160
Cys Leu Glu Gly Thr Ile Thr Cys Asn Gln Lys Pro Cys Pro Arg Gly			
165	170	175	
Pro Cys Pro Glu Pro Gly Ala Cys Cys Pro His Cys Lys Pro Gly Cys			
180	185	190	
Asp Tyr Glu Gly Gln Leu Tyr Glu Glu Gly Val Thr Phe Leu Ser Ser			
195	200	205	
Ser Lys Pro Cys Leu Gln Cys Thr Cys Leu Arg Ser Arg Val Arg Cys			
210	215	220	
Met Ala Leu Lys Cys Pro Pro Ser Pro Cys Pro Glu Pro Val Leu Arg			
225	230	235	240
Pro Gly His Cys Cys Pro Thr Cys Gln Gly Cys Thr Glu Gly Gly Ser			
245	250	255	
His Trp Glu His Gly Gln Glu Trp Thr Thr Pro Gly Asp Pro Cys Arg			
260	265	270	
Ile Cys Arg Cys Leu Glu Gly His Ile Gln Cys Arg Gln Arg Glu Cys			
275	280	285	
Ala Ser Leu Cys Pro Tyr Pro Ala Arg Pro Leu Pro Gly Thr Cys Cys			
290	295	300	
Pro Val Cys Asp Gly Cys Phe Leu Asn Gly Arg Glu His Arg Ser Gly			
305	310	315	320
Glu Pro Val Gly Ser Gly Asp Pro Cys Ser His Cys Arg Cys Ala Asn			
325	330	335	
Gly Ser Val Gln Cys Glu Pro Leu Pro Cys Pro Pro Val Pro Cys Arg			
340	345	350	
His Pro Gly Lys Ile Pro Gly Gln Cys Cys Pro Val Cys Asp Gly Cys			
355	360	365	
Glu Tyr Gln Gly His Gln Tyr Gln Ser Gln Glu Thr Phe Arg Leu Gln			
370	375	380	
Glu Arg Gly Leu Cys Val Arg Cys Ser Cys Gln Ala Gly Glu Val Ser			
385	390	395	400

Cys Glu Glu Gln Glu Cys Pro Val Thr Pro Cys Ala Leu Pro Ala Ser			
405	410	415	
Gly Arg Gln Leu Cys Pro Ala Cys Glu Leu Asp Gly Glu Glu Phe Ala			
420	425	430	
Glu Gly Val Gln Trp Glu Pro Asp Gly Arg Pro Cys Thr Ala Cys Val			
435	440	445	
Cys Gln Asp Gly Val Pro Glu Cys Gly Ala Val Leu Cys Pro Pro Ala			
450	455	460	
Pro Cys Gln His Pro Thr Gln Pro Pro Gly Ala Cys Cys Pro Ser Cys			
465	470	475	480
Asp Ser Cys Thr Tyr His Ser Gln Val Tyr Ala Asn Gly Gln Asn Phe			
485	490	495	
Thr Asp Ala Asp Ser Pro Cys His Ala Cys His Cys Gln Asp Gly Thr			
500	505	510	
Val Thr Cys Ser Leu Val Asp Cys Pro Pro Thr Thr Cys Ala Arg Pro			
515	520	525	
Gln Ser Gly Pro Gly Gln Cys Cys Pro Arg Cys Pro Asp Cys Ile Leu			
530	535	540	
Glu Glu Glu Val Phe Val Asp Gly Glu Ser Phe Ser His Pro Arg Asp			
545	550	555	560
Pro Cys Gln Glu Cys Arg Cys Gln Glu Gly His Ala His Cys Gln Pro			
565	570	575	
Arg Pro Cys Pro Arg Ala Pro Cys Ala His Pro Leu Pro Gly Thr Cys			
580	585	590	
Cys Pro Asn Asp Cys Ser Gly Cys Ala Phe Gly Gly Lys Glu Tyr Pro			
595	600	605	
Ser Gly Ala Asp Phe Pro His Pro Ser Asp Pro Cys Arg Leu Cys Arg			
610	615	620	
Cys Leu Ser Gly Asn Val Gln Cys Leu Ala Arg Arg Cys Val Pro Leu			
625	630	635	640
Pro Cys Pro Glu Pro Val Leu Leu Pro Gly Glu Cys Cys Pro Gln Cys			
645	650	655	
Pro Ala Ala Pro Ala Pro Ala Gly Cys Pro Arg Pro Gly Ala Ala His			
660	665	670	
Ala Arg His Gln Glu Tyr Phe Ser Pro Pro Gly Val Pro Cys Arg Arg			
675	680	685	

Cys Leu Cys Leu Asp Gly Ser Val Ser Cys Gln Arg Leu Pro Cys Pro  
 690 695 700  
 Pro Ala Pro Cys Ala His Pro Arg Gln Gly Pro Cys Cys Pro Ser Cys  
 705 710 715 720  
 Asp Gly Cys Leu Tyr Gln Gly Lys Glu Phe Ala Ser Gly Glu Arg Phe  
 725 730 735  
  
 Pro Ser Pro Thr Ala Ala Cys His Leu Cys Leu Cys Trp Glu Gly Ser  
 740 745 750  
 Val Ser Cys Glu Pro Lys Ala Cys Ala Pro Ala Leu Cys Pro Phe Pro  
 755 760 765  
 Ala Arg Gly Asp Cys Cys Pro Asp Cys Asp Gly Glu Gly His Gly Ile  
 770 775 780  
 Gly Ser Cys Arg Gly Gly Met Arg Glu Thr Arg Gly Leu Gly Gln Asn  
 785 790 795 800  
 Asn Leu Tyr Cys Pro Arg Val Asp Leu Lys Tyr Leu Leu Gln  
 805 810

<210> 2754

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2754

Met Ala Val Gly Val Leu Thr Gln Thr Val Gly Pro Trp Pro Arg Pro  
 1 5 10 15  
 Val Ala Tyr Leu Ser Glu Gln Leu Asp Arg Val Ser Lys Gly Trp Pro  
 20 25 30  
 Pro Gly Leu Lys Ala Leu Ala Ala Thr Ala Leu Leu Ala Gln Glu Ala  
 35 40 45  
 Asp Lys Leu Thr Leu Arg Gln Asn Leu Asn Ile Lys Asp Pro His Ala  
 50 55 60  
 Val Val Thr Ser Val Thr Thr Lys Gly His His Trp Leu Thr Asn Ala  
 65 70 75 80  
 Arg Leu Thr Lys Tyr Gln Ser Leu Leu Cys Glu Asn Pro His Ile Thr

85 90 95  
 Ile Glu Val Cys Asn Thr Leu Asn Pro Ser Thr Leu Leu Leu Gly Ser  
 100 105 110  
 Glu Ser Pro Val Lys His Asn Cys Val Glu Val Leu Asp Ser Val Tyr  
 115 120 125  
 Phe Ser Arg Pro Asn Leu Arg Asp His Pro  
 130 135

<210> 2755

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2755

Met Pro Leu Val Leu Gly Gly Val Ala Ala Arg Pro Ala Cys Glu Thr  
 1 5 10 15  
 Ser Cys Leu Cys Phe Arg Pro Trp Arg Leu Ser Val Ser Ser Leu Ser  
 20 25 30  
 Pro Cys Ser Ala Leu Pro Leu Gly Lys Pro Leu Gln Pro Ile Leu Cys  
 35 40 45  
 Leu Arg Phe Cys His Leu Cys Leu Cys Leu Leu Pro Val Trp Arg Trp  
 50 55 60  
 Ser Ser Leu Gly Pro Pro Leu Met Ile Trp Thr Arg Val Ser Ile Leu  
 65 70 75 80  
 Lys Pro Pro Pro Lys Pro Leu Cys Leu Lys Pro Leu Pro Pro Thr Thr  
 85 90 95  
 Trp Gly Ser Thr Val Thr Asn Ser Ala Ala Asp Glu Ala Ser Leu Gly  
 100 105 110  
 Ala Leu Leu Ala Thr Gly Ser Trp Leu Ser Arg Arg Pro Gly Leu Ser  
 115 120 125  
 Leu Ser Gly Ser Gly Ala  
 130

<210> 2756

&lt;211&gt; 181

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2756

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Met Cys Lys Ile Gly Gln Ile Leu Val Thr Phe Val Tyr Gln Asp Tyr
  1             5             10             15
Ala Asp Phe Trp Pro Gly Val Val Asp Arg Ala Cys Asn Ser Ser Thr
      20             25             30
Leu Gly Gly Arg Gly Gly Arg Ile Met Gly Ser Gly Asp Gly Asp His
      35             40             45
Pro Gly Gln His Gly Glu Thr Pro Ser Leu Leu Asn Met Gln Lys Leu
      50             55             60
Ala Gly Arg Gly Gly Ala Leu Leu Ser Ser Gln Leu Pro Gly Arg Leu
      65             70             75             80
Arg Gln Glu Asn Arg Leu Ser Leu Gly Gly Gly Gly Cys Ser Glu Val
      85             90             95
Arg Ser Tyr His Cys Thr Pro Ala Trp Gln Gln Ser Glu Ala Leu Ser
      100            105            110
Gln Lys Lys Lys Lys Lys Lys Lys Ile Met Leu Ile Ser Val Asn Cys
      115            120            125
Leu Ser Pro Gly Gly Arg Gly Cys Ser Lys Leu Ser Ala Pro Leu Gln
      130            135            140
Ser Ser Leu Ser Asp Arg Ala Gln Leu Cys Leu Lys Lys Lys Lys Asn
      145            150            155            160
Tyr Ala Ala Leu Phe Ser Leu Gly Ile Ile Pro Ser Phe Ser Ser Leu
      165            170            175
Trp Arg Arg Arg Val
      180

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&lt;210&gt; 2757

&lt;211&gt; 125

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2757

Met Tyr Val His Thr Thr Gly Ile Glu Glu Ala Lys Ile Phe Ser Phe  
 1 5 10 15  
 Val Ile Val Ile Phe Lys Glu Trp Thr Ser Gly Leu Phe Phe Met Lys  
 20 25 30  
 Leu His Ser Phe Cys Phe Pro Asn Ile Pro Val Gly Asp Glu Glu Ser  
 35 40 45  
 Leu Phe Phe Phe Ser Ala Arg Ser Ile Tyr Arg Asn Leu Asn Ser Ile  
 50 55 60  
 Ala Ile Gln Gly Arg Ala Asn Thr Val Ser Phe Leu Asp Pro Glu Gly  
 65 70 75 80  
 Ile Thr Gly Leu Pro Gln Trp Pro Thr Leu Pro Tyr Leu Pro Lys Glu  
 85 90 95  
 Asn Ala Gly Gln Leu Tyr Leu Asn Val Leu Gln His Val Leu Phe Leu  
 100 105 110  
 Leu Glu Cys Phe Leu Leu Gly Phe Asp Ala Leu Asn Glu  
 115 120 125

&lt;210&gt; 2758

&lt;211&gt; 656

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2758

Met Ser Glu Leu Ser Asp Glu Ala Ser Glu Pro Glu Leu Leu Asn Arg  
 1 5 10 15  
 Ser Leu Ser Met Trp His Gly Leu Gly Thr Gln Val Ser Gly Glu Glu  
 20 25 30  
 Leu Asp Val Pro Leu Asp Leu His Thr Ala Ala Ser Ile Gly Gln Tyr  
 35 40 45  
 Glu Val Val Lys Glu Cys Val Gln Arg Arg Glu Leu Asp Leu Asn Lys  
 50 55 60  
 Lys Asn Gly Gly Gly Trp Thr Pro Leu Met Tyr Ala Ser Tyr Ile Gly  
 65 70 75 80  
 His Asp Thr Ile Val His Leu Leu Leu Glu Ala Gly Val Ser Val Asn



	85	90	95
Val Pro Thr	Pro Glu Gly Gln Thr	Pro Leu Met Leu	Ala Ser Ser Cys
100	105	110	
Gly Asn Glu Ser Ile	Ala Tyr Phe Leu Leu Gln Gln Gly	Ala Glu Leu	
115	120	125	
Glu Met Lys Asp Ile	Gln Gly Trp Thr Ala Leu Phe His	Cys Thr Ser	
130	135	140	
Ala Gly His Gln His	Met Val Arg Phe Leu Leu Asp Ser Gly	Ala Asn	
145	150	155	160
Ala Asn Val Arg Glu	Pro Ile Cys Gly Phe Thr Pro Leu Met Glu	Ala	
165	170	175	
Ala Ala Ala Gly His	Glu Ile Ile Val Gln Tyr Phe Leu Asn His	Gly	
180	185	190	
Val Lys Val Asp Ala	Arg Asp His Ser Gly Ala Thr Ala Arg Met Leu		
195	200	205	
Ala Lys Gln Tyr Gly	His Met Lys Ile Val Ala Leu Met Asp Thr Tyr		
210	215	220	
Ser Pro Ser Leu Pro	Lys Ser Leu Tyr Arg Ser Pro Glu Lys Tyr Glu		
225	230	235	240
Asp Leu Ser Ser Ser	Asp Glu Ser Cys Pro Ala Pro Gln Arg Gln Arg		
245	250	255	
Pro Cys Arg Lys Lys	Gly Val Ser Ile His Glu Gly Pro Arg Ala Leu		
260	265	270	
Ala Arg Ile Thr Gly	Ile Gly Leu Gly Gly Arg Ala Pro Arg Pro Arg		
275	280	285	
Tyr Glu Gln Ala Pro	Pro Arg Gly Tyr Val Thr Phe Asn Ser Ser Gly		
290	295	300	
Glu Asn Pro Leu Glu	Glu Glu Gly Leu Cys Cys Arg Asp Val Thr Ser		
305	310	315	320
Pro Ile Asn Glu Arg	Asp Val Glu Ser Ser Ser Ser Ser Ser Arg		
325	330	335	
Glu Glu His Ala Phe	Cys Ala Asn Leu Gly Pro Val Gln Ser Ser Ser		
340	345	350	
Ser Ser Glu Gly Leu	Ala Arg Ala Gln Gly Leu Ser Ser Glu Ala Ser		
355	360	365	
Val Glu Ser Asn Glu	Asp Ser Asp His Ala Cys Lys Ser Ser Ala Arg		

370	375	380
Lys Gln Ala Lys Ser Tyr Met Lys Thr Lys Asn Pro Asp Ser Gln Trp		
385	390	395
Pro Pro Arg Ala Ala Thr Asp Arg Glu Gly Phe Leu Ala Glu Ser Ser		
405	410	415
Pro Gln Thr Gln Arg Ala Pro Tyr Ser Gly Pro Gln Asp Leu Ala Ala		
420	425	430
Leu Leu Glu Gln Ile Gly Cys Leu Lys Tyr Leu Gln Val Phe Glu Glu		
435	440	445
Gln Asp Val Asp Leu Arg Ile Phe Leu Thr Leu Thr Glu Ser Asp Leu		
450	455	460
Lys Glu Ile Gly Ile Thr Leu Phe Gly Pro Lys Arg Lys Met Thr Ser		
465	470	475
Ala Ile Ala Arg Trp His Ser Ser Ala Arg Pro Pro Gly Asp Ala Leu		
485	490	495
Glu Leu Ala Tyr Ala Asp Arg Leu Glu Ala Glu Met Gln Glu Leu Ala		
500	505	510
Ile Gln Leu His Lys Arg Cys Glu Glu Val Glu Ala Thr Arg Gly Gln		
515	520	525
Val Cys Gln Glu Gln Glu Leu Arg Ala Val Val Glu Ser Cys Leu Leu		
530	535	540
Glu Gln Asp Arg Ala Arg Glu Asp Leu Gln Ala Arg Leu Arg Glu Thr		
545	550	555
Trp Ala Leu Ala Arg Asp Ala Ala Leu Val Leu Asp Gln Leu Arg Ala		
565	570	575
Cys Gln Ala Glu Leu Ser Ser Arg Val Arg Gln Asp Gln Pro Pro Gly		
580	585	590
Ala Ala Thr Leu Gly Leu Ala Val Pro Pro Ala Asp Ser Lys Gly Trp		
595	600	605
Gln Ala Ser Leu Gln Ala Met Ser Leu Pro Glu Leu Ser Gly Ala Leu		
610	615	620
Glu Asp Arg Val Arg Glu Met Gly Gln Ala Leu Cys Leu Val Thr Gln		
625	630	635
Ser Leu Glu Lys Leu Gln Val Leu Asn Gly Lys Lys Trp Arg Glu Thr		
645	650	655

&lt;210&gt; 2759

&lt;211&gt; 172

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2759

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Met Ser Gly Lys Gly Gln Val Leu Pro Trp Asp Pro Arg Ala Arg Thr
 1      5      10      15
Glu Leu Pro Glu Ala Pro Gly Ala Thr Arg Val Gly Pro Pro Ser Thr
      20      25      30
Pro Ala Pro Arg Lys Val Arg His Pro Leu Pro Pro Ser Gln Ala Gly
      35      40      45
Ile Leu Pro Ala Leu His Pro Leu Pro Cys Asp Val His Leu Pro Arg
      50      55      60
Ser Arg Arg Trp Arg Cys Pro Thr Ser Ala Ala Ala Gly Gly Asp Arg
      65      70      75      80
Arg Cys Ser Ser Ala Trp Arg Cys Gly Ala Met Ser Lys Gly Leu Glu
      85      90      95
Asp Thr Glu Leu Ala Arg Val Arg Val Ala Arg Pro Ala Ala Thr Pro
      100      105      110
Glu Ser Thr Leu Gln Arg Gly Ser Glu Pro Val Phe Arg Val Gln Gly
      115      120      125
Arg Gly Gly Leu Ala Leu Ser Pro Ala Ser Gly Leu Cys Pro Arg Leu
      130      135      140
Arg Pro Ala Leu Ser Pro Pro Pro Gln Pro Gln Val Arg Ala Arg Glu
      145      150      155      160
Lys Gly Arg Gly Glu Arg Arg Ser Gly Ser Pro Asp
      165      170

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&lt;210&gt; 2760

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2760

Met Pro Gly Pro Trp Leu Cys Pro Glu Phe Leu Leu Arg Lys Met Thr  
 1 5 10 15  
 Thr Leu Ser Cys Cys Leu Cys Ser Val Trp Phe Ser Asp Glu Asn Ser  
 20 25 30  
 Asn Gln Ser Ser Val Ser Asp Val Tyr Gln Leu Lys Val Asp Ser Ser  
 35 40 45  
 Thr Asn Ser Ser Pro Ser Pro Gln Gln Ser Glu Ser Leu Ser Pro Ala  
 50 55 60  
 His Thr Ser Asp Phe Arg Thr Asp Asp Ser Gln Pro Pro Thr Leu Gly  
 65 70 75 80  
 Gln Glu Ile Leu Glu Glu Pro Ser Leu Pro Ser Ser Glu Val Ala Asp  
 85 90 95  
 Glu Pro Pro Thr Leu Thr Lys Glu Glu Pro Val Pro Leu Glu Thr Gln  
 100 105 110  
 Val Val Glu Glu Glu Glu Asp Ser Gly Ala Pro Pro Leu Lys Arg Phe  
 115 120 125  
 Cys Val Asp Gln Pro Thr Val Pro Gln Thr Ala Ser Glu Ser  
 130 135 140

&lt;210&gt; 2761

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2761

Met Asn Asp His Gln Glu Lys Leu Glu Gln Ala Asp Ala Gln Lys Gly  
 1 5 10 15  
 Gly Glu Glu Gly His Val Pro Asp Asn Ser Cys Arg Gly Leu Gln Ala  
 20 25 30  
 Asp Gly Val Pro Glu Arg Thr Val Ile Gln Ile Ile Pro Ile Pro Lys  
 35 40 45  
 Asn Lys Glu Thr Arg Gly Gln Ala Ile Ser Lys Glu Ser Gln Thr Gly  
 50 55 60

[illegible]

<210> 2762

 $\langle 211 \rangle$  180

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2762

Met	Cys	Leu	Val	Ala	Phe	Pro	Ser	Arg	Pro	Glu	Glu	Pro	Thr	Thr	
1				5					10					15	
Trp	Thr	Gly	Tyr	Phe	Gly	Lys	Val	Leu	Met	Ala	Ser	Thr	Ser	Tyr	Leu
			20					25					30		
Pro	Ser	Gln	Val	Thr	Glu	Met	Phe	Asn	Gln	Gly	Arg	Ala	Phe	Ala	Thr
		35					40					45			
Val	Arg	Leu	Pro	Phe	Cys	Gly	His	Lys	Asn	Ile	Cys	Ser	Leu	Ala	Thr
	50					55				60					
Ile	Gln	Lys	Ile	Pro	Arg	Leu	Leu	Val	Gly	Ala	Ala	Asp	Gly	Tyr	Leu
65				70					75					80	
Tyr	Met	Tyr	Asn	Leu	Asp	Pro	Gln	Glu	Gly	Gly	Glu	Cys	Ala	Leu	Met
			85					90					95		
Lys	Gln	His	Arg	Leu	Asp	Gly	Ser	Leu	Glu	Thr	Thr	Asn	Glu	Ile	Leu
		100						105				110			
Asp	Ser	Ala	Ser	His	Asp	Cys	Pro	Leu	Val	Thr	Gln	Thr	Tyr	Gly	Ala
	115						120				125				
Ala	Ala	Gly	Lys	Gly	Thr	Tyr	Val	Pro	Ser	Ser	Pro	Thr	Arg	Leu	Ala
	130					135				140					
Tyr	Thr	Asp	Asp	Leu	Gly	Ala	Val	Gly	Gly	Ala	Cys	Leu	Glu	Asp	Glu
145				150					155					160	
Ala	Ser	Ala	Leu	Arg	Leu	Asp	Glu	Asp	Ser	Glu	His	Pro	Pro	Met	Ile
		165					170					175			

Leu Arg Thr Asp

180

<210> 2763

<211> 208

<212> PRT

<213> Homo sapiens

<400> 2763

Met Lys Gln Arg Phe Ser Ala Leu Gln Leu Leu Lys Leu Leu Leu Leu  
 1 5 10 15  
 Leu Gln Pro Pro Leu Pro Arg Ala Leu Arg Glu Ala Leu Cys Pro Glu  
 20 25 30  
 Pro Cys Asn Cys Val Pro Asp Gly Ala Leu Arg Cys Pro Gly Pro Thr  
 35 40 45  
 Ala Gly Leu Thr Arg Leu Ser Leu Ala Tyr Leu Pro Val Lys Val Ile  
 50 55 60  
 Pro Ser Gln Ala Phe Arg Gly Leu Asn Glu Val Ile Lys Ile Leu Ile  
 65 70 75 80  
 Gln Asn Thr Lys Asn Leu Arg Tyr Ile Glu Pro Gly Ala Phe Ile Asn  
 85 90 95  
 Leu Pro Arg Leu Lys Tyr Leu Ser Ile Cys Asn Thr Gly Ile Arg Lys  
 100 105 110  
 Phe Pro Asp Val Thr Lys Val Phe Ser Ser Glu Ser Asn Phe Ile Leu  
 115 120 125  
 Glu Ile Cys Asp Asn Leu His Ile Thr Thr Ile Pro Gly Asn Ala Phe  
 130 135 140  
 Gln Gly Met Asn Asn Glu Ser Val Thr Leu Lys Leu Tyr Gly Asn Gly  
 145 150 155 160  
 Phe Glu Glu Val Gln Ser His Ala Phe Asn Gly Thr Thr Leu Thr Ser  
 165 170 175  
 Leu Glu Leu Lys Glu Asn Val His Leu Glu Lys Met His Asn Gly Ala  
 180 185 190  
 Phe Arg Gly Ala Thr Gly Pro Lys Thr Leu Pro Cys Arg Ala Met Ala  
 195 200 205

<210> 2764

<211> 173

<212> PRT

<213> Homo sapiens

<400> 2764

```

Met Thr Leu Cys His Arg Asp Ser Phe Gly Ser Trp His Leu Phe His
  1             5             10             15
Leu Leu Leu Leu Glu Tyr Met Ile His Ile Leu Gln Ser Cys Leu Glu
      20             25             30
Glu Glu Glu Glu Glu Glu Asp Met Gly Thr Val Lys Glu Met Leu Pro
      35             40             45
Asp Asp Pro Thr Leu Gly Gln Pro Asp Gln Ala Leu Phe His Ser Leu
      50             55             60
Asn Ser Ser Leu Ser Gln Ala Cys Ala Ser Pro Ser Met Glu Pro Leu
      65             70             75             80
Gly Val Met Pro Thr His Met Gly Gln Gly Arg Tyr Pro Val Gly Val
      85             90             95
Ser Asn Met Val Leu Arg Ile Leu Gly Phe Leu Val Asp Thr Ala Met
      100            105            110
Gly Asn Lys Leu Ile Gln Val Leu Leu Glu Asp Glu Thr Thr Glu Ser
      115            120            125
Ala Val Lys Leu Ser Leu Pro Met Gly Gln Glu Ala Leu Ile Thr Leu
      130            135            140
Lys Asp Gly Gln Gln Phe Val Ile Gln Ile Ser Asp Val Pro Gln Asn
      145            150            155            160
Ser Glu Asp Ile Tyr Phe Arg Glu Asn Asn Ala Asn Val
      165            170

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<210> 2765

<211> 322

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2765

Met His Leu Ser Ile His Pro Ser Leu Pro Leu Cys Met His Leu Ser  
 1 5 10 15  
 Ile His Pro Arg Leu Cys Ala Cys Ile Cys Pro Ser Ile Pro Ala Ser  
 20 25 30  
 Val His Ala Ser Val Arg Pro Ser Ile Pro Ala Ser Val His Ala Ser  
 35 40 45  
 Val His Ser Ser Leu Pro Leu Cys Met His Leu Ser Ile His Pro Ser  
 50 55 60  
 Pro Pro Leu Cys Met His Leu Ser Ile His Pro Cys Leu Cys Ala Cys  
 65 70 75 80  
 Ile Cys Pro Phe Ile Pro Ala Ser Val His Ala Ser Val His Pro Ser  
 85 90 95  
 Ile Pro Ala Ser Val His Ala Ser Val His Ser Ser Leu Pro Leu Cys  
 100 105 110  
 Met His Leu Ser Ile His Pro Ser Pro Pro Leu Cys Met His Leu Ser  
 115 120 125  
 Ile His Pro Cys Leu Cys Val Cys Ile Cys Pro Ser Ile His Pro Arg  
 130 135 140  
 Leu Cys Ala Cys Ile Arg Pro Ser Ile Pro Ala Ser Val His Ala Ser  
 145 150 155 160  
 Val Arg Pro Ser Ile Pro Ala Ser Val His Ala Ser Val Arg Pro Phe  
 165 170 175  
 Ile Pro Ala Ser Val His Ala Ser Val His Ser Ser Ile Pro Asp Ser  
 180 185 190  
 Val His Ala Ser Val His Pro Ser Ile Leu Ala Ser Met Leu Ala Phe  
 195 200 205  
 Val Arg Pro Ser Ile Pro Ala Ser Val His Ala Ser Ile Pro Ala Ser  
 210 215 220  
 Val His Ala Ser Val Ser Leu Ser Ile Pro Asp Pro Phe Phe Val Met  
 225 230 235 240  
 Val Leu Ser Ala His Asn Ser Leu Ile Leu Arg Arg Ser Leu Asp Pro  
 245 250 255  
 Phe Pro Pro Leu Thr Pro Cys Cys Ser Leu Pro Ser Leu Pro Gly Gln  
 260 265 270



Val Leu Gln Pro Val Val Ser Thr Gln Ser Ser Leu Pro Pro Leu Leu  
 275 280 285  
 Ser His Leu Ser Pro Leu His Ser Lys Phe Phe Pro Asn Ala Leu Gly  
 290 295 300  
 Leu Gln Ala Leu Lys Arg Ser Leu Cys Pro Trp Met Thr Lys His Arg  
 305 310 315 320  
 Pro Met

<210> 2766

<211> 151

<212> PRT

<213> Homo sapiens

<400> 2766

Met Ser Ser Leu Lys Val Pro His Thr Arg Pro Val Ser Leu Ser Thr  
 1 5 10 15  
 Gly Ser Cys Val Ile Ile Thr Gly Thr Pro Ile Ile Pro Phe Val Met  
 20 25 30  
 Asp Pro Gln Leu Gln Val Asp Phe His Thr Glu Met Lys Glu Asp Ser  
 35 40 45  
 Asp Ile Ala Phe His Phe Arg Val Tyr Phe Gly His Trp Val Val Met  
 50 55 60  
 Asn Ser Arg Val Asn Gly Ala Trp Gln Tyr Glu Val Thr Cys His Asn  
 65 70 75 80  
 Met Pro Phe Gln Asp Gly Lys Pro Phe Asn Leu Cys Ile Ser Val Leu  
 85 90 95  
 Ala Asp Glu Tyr Gln Pro Phe Arg Ile Ile Ser Tyr Val Leu Gln His  
 100 105 110  
 Leu Phe Cys Ser Ser Ser Leu Lys Thr Phe Glu Phe Pro Ser Leu Pro  
 115 120 125  
 Pro Pro Leu His Leu Trp Ala Thr Pro Lys Arg Asn Trp Ala Ile Ser  
 130 135 140  
 Ser His Ser Glu Trp Glu Leu  
 145 150

&lt;210&gt; 2767

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2767

```

Met Glu Val Arg Val Pro Leu Glu Glu Ala Gly Cys Ser Gln Ser Ser
  1              5              10              15
Asn Thr Met Leu Gly Glu Pro Leu Leu Arg Ala Val Arg Gln Gly Cys
      20              25              30
Leu Ser Leu Gln Lys Phe Leu Leu Pro Phe Val Gln Leu Cys Pro Ala
      35              40              45
Pro Arg Gly Arg Val Tyr Arg Gly Ser Ser Pro Cys Arg Ala Val Val
      50              55              60
Gly Ser Ala Gln Phe Glu Leu His Arg His Phe Val Tyr Leu Leu Lys
      65              70              75              80
Pro Gln Gln Trp Gln Thr Pro Leu Pro Leu Pro Gly Cys Cys Leu Thr
      85              90              95
Gly Gln Ser Gln Thr Ala Glu Pro Ala Val Ser Lys Ala Pro Trp Ala
      100             105             110
Trp Asp Leu Leu Ser Gln Ala Gln Asp Ile Ile Ser Trp Cys Ala Ile
      115             120             125
Cys

```

&lt;210&gt; 2768

&lt;211&gt; 119

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2768

```

Met Arg Lys Gly Ser Met Gly Asn Asn Leu Asp Ala Glu Ala Leu Cys
  1              5              10              15

```

Trp Glu Gly Leu Asp His Val Asn Met Arg Cys Ile Cys Ser Val Gly  
                   20                                  25                                  30  
 Glu Lys His Val Val Ala Ser Gly Trp Gln Glu Gly Arg Arg His Leu  
                   35                                  40                                  45  
 Phe Ser Glu Leu Leu Pro Ser Glu Ser Ser Val Leu Leu Thr Met Gly  
                   50                                  55                                  60  
 Gly Cys Leu Glu Pro Gln Gly Ser Ala Trp Cys Ser Ser Leu Cys Ala  
                   65                                  70                                  75                                  80  
 Glu Gln Ser Leu Pro Ser Pro Arg His Leu Glu Ser Leu Ser Ser Arg  
                                   85                                  90                                  95  
 Gly Pro His Ile Val Phe Leu Phe Thr Met Phe Leu Ile Leu Ser Val  
                                   100                                  105                                  110  
 Glu Ser Ser Leu Lys Thr His  
                                   115

<210> 2769

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2769

Met Thr Gln Val Leu Met Val Gln Arg Gly Gln Pro Val Arg Gly Gln  
                   1                                  5                                  10                                  15  
 Arg Gln Ala Arg Thr Glu Met Val Ser Trp Lys Thr Ala Arg Leu His  
                   20                                  25                                  30  
 Leu Ser Asn Gly Thr Arg Leu Glu Gly Arg Pro Ala Ala Leu Gly Asn  
                   35                                  40                                  45  
 Arg Gly Cys Phe Trp Val Asn Ser Gln Thr Arg Trp Cys Arg Glu Pro  
                   50                                  55                                  60  
 Trp Thr Trp Gln Leu Gly Trp Thr Ser His Gly Ser Val Phe Gln Glu  
                   65                                  70                                  75                                  80  
 Thr Ala Ser Gln Cys Leu Ser Gly Gln Phe Ser Lys Arg Thr Ile His  
                                   85                                  90                                  95  
 Gly Pro Phe Phe His Ser Leu Pro Met His Arg Leu Gly Trp Ala

100

105

110

&lt;210&gt; 2770

&lt;211&gt; 142

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2770

Met Asp Arg Pro Leu His Pro Ala Pro Ala Pro Cys Thr Leu Arg Pro  
 1 5 10 15  
 Arg Ser Gln Ala Gln Gln Arg Pro Glu His Gly Gly Cys Pro Gln Ser  
 20 25 30  
 Thr Ser Ala Phe Leu Arg Thr Ala Cys Glu Gln Gly Gly Gly Ala Phe  
 35 40 45  
 Arg Lys Trp Lys Pro Thr Leu Arg Val Arg Ala Val His Pro Pro Arg  
 50 55 60  
 Ala Ser Ser Leu Ser Leu Phe Arg Ser Thr Arg Ala Gln Ser Val Thr  
 65 70 75 80  
 Asn Asp Thr Gln His Leu Val Pro Arg Glu Ile Gly Gly Glu Glu Gly  
 85 90 95  
 Gly Val Leu Lys Arg Ser Ala Ser Pro Trp Glu Val Asn Ile Leu Ser  
 100 105 110  
 Glu Pro Leu Ala Tyr Arg Gly Gly Tyr Thr His Trp Met Gly Gly His  
 115 120 125  
 Leu Gly Ser Tyr Trp His Val Ser Gln Phe Ala Ser Pro Pro  
 130 135 140

&lt;210&gt; 2771

&lt;211&gt; 409

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2771

Met Ser Leu Gly Pro Cys Ser Ala Ser Cys Gly Leu Gly Thr Ala Arg

1	5	10	15
Arg Ser Val	Ala Cys Val	Gln Leu Asp	Gln Gly Gln Asp Val Glu Val
20	25	30	
Asp Glu Ala	Ala Cys Ala	Ala Leu Val	Arg Pro Glu Ala Ser Val Pro
35	40	45	
Cys Leu Ile	Ala Asp Cys	Thr Tyr Arg	Trp His Val Gly Thr Trp Met
50	55	60	
Glu Cys Ser	Val Ser Cys	Gly Asp Gly	Ile Gln Arg Arg Arg Asp Thr
65	70	75	80
Cys Leu Gly	Pro Gln Ala	Gln Ala Pro	Val Pro Ala Asp Phe Cys Gln
85	90	95	
His Leu Pro	Lys Pro Val	Thr Val Arg	Gly Cys Trp Ala Gly Pro Cys
100	105	110	
Val Gly Gln	Gly Thr Pro	Ser Leu Val	Pro His Glu Glu Ala Ala Ala
115	120	125	
Pro Gly Arg	Thr Thr Ala	Thr Pro Ala	Gly Ala Ser Leu Glu Trp Ser
130	135	140	
Gln Ala Arg	Gly Leu Leu	Phe Ser Pro	Ala Pro Gln Pro Arg Arg Leu
145	150	155	160
Leu Pro Gly	Pro Gln Glu	Asn Ser Val	Gln Ser Ser Ala Cys Gly Arg
165	170	175	
Gln His Leu	Glu Pro Thr	Gly Thr Ile	Asp Met Arg Gly Pro Gly Gln
180	185	190	
Ala Asp Cys	Ala Val Ala	Ile Gly Arg	Pro Leu Gly Glu Val Val Thr
195	200	205	
Leu Arg Val	Leu Glu Ser	Ser Leu Asn	Cys Ser Ala Gly Asp Met Leu
210	215	220	
Leu Leu Trp	Gly Arg Leu	Thr Trp Arg	Lys Met Cys Arg Lys Leu Leu
225	230	235	240
Asp Met Thr	Phe Ser Ser	Lys Thr Asn	Thr Leu Val Val Arg Gln Arg
245	250	255	
Cys Gly Arg	Pro Gly Gly	Gly Val Leu	Leu Arg Tyr Gly Ser Gln Leu
260	265	270	
Ala Pro Glu	Thr Phe Tyr	Arg Glu Cys	Asp Met Gln Leu Phe Gly Pro
275	280	285	
Trp Gly Glu	Ile Val Ser	Pro Ser Leu	Ser Pro Ala Thr Ser Asn Ala

290                      295                      300  
 Gly Gly Cys Arg Leu Phe Ile Asn Val Ala Pro His Ala Arg Ile Ala  
 305                      310                      315                      320  
 Ile His Ala Leu Ala Thr Asn Met Gly Ala Gly Thr Glu Gly Ala Asn  
                     325                      330                      335  
 Ala Ser Tyr Ile Leu Ile Arg Asp Thr His Ser Leu Arg Thr Thr Ala  
                     340                      345                      350  
 Phe His Gly Gln Gln Val Leu Tyr Trp Glu Ser Glu Ser Ser Gln Ala  
                     355                      360                      365  
 Glu Met Glu Phe Ser Glu Gly Phe Leu Lys Ala Gln Ala Ser Leu Arg  
                     370                      375                      380  
 Gly Gln Tyr Trp Thr Leu Gln Ser Trp Val Pro Glu Met Gln Asp Pro  
 385                      390                      395                      400  
 Gln Ser Trp Lys Gly Lys Glu Gly Thr  
                     405

<210> 2772

<211> 242

<212> PRT

<213> Homo sapiens

<400> 2772

Met Lys Trp Ile Pro Thr Ser Asn Pro Leu Pro Gln Pro Phe Lys Glu  
   1                      5                      10                      15  
 Pro Leu Ala Ile Met Arg Val Glu Asn Ser Lys Ala Glu Lys Pro Lys  
                     20                      25                      30  
 Pro Ala Arg Arg Lys Thr Ala Thr Asp Thr Leu Ile Ala Pro Leu Leu  
                     35                      40                      45  
 Asp Arg Ser Ala His His Tyr Lys Gly Gly Gly Gly Asp Pro Gly Pro  
                     50                      55                      60  
 Gly Pro Ala Pro Ala Pro Ala Pro Pro Pro Ala Pro Asp Lys Lys His  
                     65                      70                      75                      80  
 Ala Arg His Phe Ser Leu Asp Val His Pro Tyr Ile Leu Gly Thr Lys  
                     85                      90                      95  
 Lys Ala Lys Ala Glu Ala Val Pro Ala Ala Leu Pro Ala Ser Arg Ser

	100		105		110										
Gln	Glu	Gly	Gly	Phe	Leu	Ser	Gln	Ala	Glu	Asp	Cys	Gly	Leu	Gly	Leu
	115		120		125										
Ala	Pro	Ala	Pro	Ile	Lys	Asp	Ala	Pro	Leu	Pro	Glu	Lys	Glu	Ile	Pro
	130		135		140										
Tyr	Pro	Thr	Glu	Pro	Ala	Arg	Ala	Gly	Leu	Pro	Ser	Gly	Gly	Pro	Phe
145			150		155									160	
His	Val	Arg	Ser	Pro	Pro	Ala	Ala	Pro	Ala	Val	Ala	Pro	Leu	Thr	Pro
			165		170									175	
Ala	Ser	Leu	Gly	Lys	Ala	Glu	Pro	Leu	Thr	Ile	Leu	Ser	Gln	Thr	Pro
	180		185		190										
His	Thr	Arg	Cys	Cys	Thr	Ser	Thr	Arg	Cys	Thr	Arg	Pro	Gly	Arg	Arg
	195		200		205										
Arg	Thr	Gly	Ala	Pro	Ala	Cys	Arg	Arg	Thr	Trp	Gly	Thr	Ser	Ser	Pro
	210		215		220										
Ser	Leu	Pro	His	Ser	Arg	Ser	Ser	Ser	Pro	Pro	Ser	Thr	Ser	Arg	Glu
225			230		235									240	
Arg	Ser														

&lt;210&gt; 2773

&lt;211&gt; 116

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2773

Met	Phe	Ser	Val	Val	Cys	His	Phe	Val	Ser	Ser	Leu	Arg	Gly	Tyr	Phe
1			5						10					15	
Pro	Ala	Ser	Leu	Lys	Ser	Ser	Phe	Pro	Ala	Cys	Cys	Phe	Trp	Thr	Leu
			20						25				30		
Phe	Ser	Thr	Val	Val	Thr	Ser	Cys	Arg	Leu	Cys	Gly	Pro	Ile	Leu	His
			35						40				45		
Gln	Asn	Val	Thr	Ser	Ile	Asn	Ser	Ala	Ala	Met	Arg	Gln	Ile	His	Gln
			50						55				60		
Trp	Pro	Ala	Asp	Ser	Arg	Gln	Gln	Ala	Pro	Met	Ser	Asp	Gly	His	Leu

65                      70                      75                      80  
 His Ala Ser Arg Gly Pro Pro Pro Pro Cys Gly Val Ser Arg Ala Gly  
                             85                      90                      95  
 Leu Thr Ile Pro Leu Gly Thr Arg Ala Ser Gly Trp Pro Glu Ser Ser  
                             100                      105                      110  
 His Thr Leu Cys  
                             115

<210> 2774

<211> 295

<212> PRT

<213> Homo sapiens

<400> 2774

Met Thr Ser Gly Asp Pro Pro Ser Leu Ala Ser Gln Ser Ala Arg Ile  
   1                      5                      10                      15  
 Thr Asp Ala Ser His His Ala Arg Pro Leu Phe Leu Phe Leu Arg Gln  
                             20                      25                      30  
 Gly Leu Ser Ser Phe Ala Glu Ala Gly Val Gln Trp His Asn Tyr Gly  
                             35                      40                      45  
 Ser Leu Gln Pro Gln Pro Pro Gly Val Lys Arg Ala Ser His Leu Asn  
                             50                      55                      60  
 Leu Pro Ser Ser Met His His Thr Trp Leu Ile Phe Val Phe Phe Val  
   65                      70                      75                      80  
 Gly Thr Glu Phe Gln Cys Val Ala Gln Ala Gly Val Gly Leu Pro Gly  
                             85                      90                      95  
 Ser Ser Asn Pro Pro Thr Ser Ala Ser Gln Arg Ala Gly Thr Thr Gly  
                             100                      105                      110  
 Met Ser His Ser Thr Gln His Phe Phe Asn Ser Val Thr Pro Gln Leu  
                             115                      120                      125  
 Leu Leu Leu Pro Leu Pro Gly Lys Pro Ala Arg Leu Thr Cys His Pro  
                             130                      135                      140  
 Arg Leu Ser Thr Gln Thr Leu Leu Ala Met Arg Gly Leu Gly Gln Gln  
   145                      150                      155                      160  
 Ser Arg Ala Pro Phe Pro Gly Pro Pro Gln Leu Pro Leu Gly Gln Arg



	165		170		175										
Val	Trp	Gly	Leu	Ile	Phe	Asn	Pro	Leu	Pro	Ala	Pro	Glu	Ala	Leu	Glu
	180		185		190										
Lys	Ser	Arg	Thr	Gln	Asp	Ser	Ser	Asp	Ser	Ala	Pro	Leu	Pro	Ala	Arg
	195		200		205										
Arg	Phe	Leu	Leu	Thr	Arg	Pro	Ala	Gln	Pro	Asp	Leu	Gly	Gly	Ser	Pro
	210		215		220										
Ala	Pro	Ser	Ser	Leu	Pro	Ser	Trp	Leu	Arg	Val	Ala	Thr	Arg	Ser	Ile
225			230		235									240	
Trp	Cys	Phe	Arg	Tyr	Ser	Leu	Gly	Ser	Arg	Thr	Leu	Val	Gly	Leu	Ser
	245		250		255										
His	Thr	Arg	Gly	Gly	Cys	Arg	Val	Ser	Gln	Leu	Arg	Leu	Ala	Ser	Thr
	260		265		270										
Trp	Asp	Thr	Phe	His	Ser	Lys	Trp	Val	Gly	Thr	Arg	Thr	Thr	Lys	Leu
	275		280		285										
Met	Leu	Phe	Leu	Lys	Gly	Lys									
	290		295												

&lt;210&gt; 2775

&lt;211&gt; 117

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2775

Met	Thr	Val	Pro	His	Pro	Val	Leu	Ser	Gly	His	Gly	Glu	Gly	Thr	Leu
1		5		10		15									
Gly	Lys	Asp	Thr	Arg	Asp	Arg	Glu	Gly	Ala	Ala	Gly	Leu	Phe	Ala	Gly
	20		25		30										
Ser	Gly	Arg	Glu	Ala	Phe	Leu	Leu	His	Val	Ala	Ala	Gly	Thr	Gln	Thr
	35		40		45										
Ala	Ala	Leu	Gln	Gly	Pro	Leu	Ala	Gly	Phe	Gly	Ser	Leu	Arg	Pro	Arg
	50		55		60										
Thr	Arg	Leu	His	Thr	Ala	Val	Ala	Ser	Leu	Ser	Arg	Val	Gly	Cys	Ser
	65		70		75									80	
Thr	Glu	Gly	Ala	Asn	Thr	Ser	Arg	Gly	Leu	Cys	Gln	Val	Ile	Thr	Lys

85 90 95  
 Gln Ile Pro Gly Asp Phe Leu Ser Ser Pro Arg Pro Pro Gly Gln Cys  
 100 105 110  
 Pro Leu Arg Val Pro  
 115

<210> 2776

<211> 171

<212> PRT

<213> Homo sapiens

<400> 2776

Met Arg Gly Ser Ala Trp Gly Leu Glu Glu Val Ser Leu Arg Lys Leu  
 1 5 10 15  
 His Leu Ser Thr Arg Leu Arg Ala Leu Asp Met Glu Gly Val Val Arg  
 20 25 30  
 Ala Lys Val His Val Glu Glu Thr Ser Ala Gly Glu Gly Arg Gly Arg  
 35 40 45  
 Gly Ser Gln Asn Lys Glu Ala Val Tyr Ser Glu Ala Phe Gln Arg Ala  
 50 55 60  
 Phe Leu Ile Pro Phe Gln Ala Ser Phe Thr Gly Ala Phe Lys Glu Asp  
 65 70 75 80  
 Ala Leu Asn Tyr Trp Val Ser Ser Gln Gly Leu Leu Tyr Cys Met Leu  
 85 90 95  
 His Leu Tyr Tyr Phe Leu Glu Asn Leu Ser Phe Lys Ala Val Leu His  
 100 105 110  
 Leu Met Trp Gln Pro Leu Arg Asn Ile His Cys Leu Ser Leu Gly Leu  
 115 120 125  
 Gln Lys Lys Lys Gln Gly Pro Ser Ile Cys Leu Ala Pro Ile Leu Leu  
 130 135 140  
 Val Val Pro Ser Glu Leu Asp Ser Asp Val Asp Arg Arg Ala Val Leu  
 145 150 155 160  
 Thr Gln Ala Trp Ala Phe Ser Pro His Thr Ala  
 165 170

&lt;210&gt; 2777

&lt;211&gt; 198

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2777

```

Met Ala Leu Ser Pro Asn Gly Glu Ile Leu Arg Ala Arg Glu Ala Tyr
  1             5             10            15
Tyr Gln Pro Ser Leu Thr Ala Glu Tyr Asp Glu Asp Ser Pro Gly Gly
      20             25            30
Asp Phe Asp Phe Phe Ser Asn Leu Val Thr Lys Trp Glu Ala Ala Ala
      35             40            45
Arg Leu Pro Gly Asp Ser Thr Arg Gln Val Val Val Arg Ser Gly Val
      50             55            60
Val Leu Gly Arg Gly Gly Gly Ala Met Gly His Met Leu Leu Pro Phe
      65             70            75            80
Arg Leu Gly Leu Gly Val Pro Ile Gly Ser Gly His Gln Phe Phe Pro
      85             90            95
Trp Ile His Ile Gly Asp Leu Ala Gly Ile Leu Thr His Ala Leu Glu
      100            105            110
Ala Asn His Val His Gly Val Leu Asn Gly Val Ala Pro Ser Ser Ala
      115            120            125
Thr Asn Ala Glu Phe Ala Gln Thr Leu Gly Ala Ala Leu Gly Arg Arg
      130            135            140
Ala Phe Ile Pro Leu Pro Ser Ala Val Val Gln Ala Val Phe Gly Arg
      145            150            155            160
Gln Arg Ala Ile Met Leu Leu Glu Gly Gln Lys Val Ile Pro Gln Arg
      165            170            175
Thr Leu Ala Thr Gly Tyr Gln Tyr Ser Phe Pro Glu Leu Gly Ala Ala
      180            185            190
Leu Lys Glu Ile Val Ala
      195

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&lt;210&gt; 2778

&lt;211&gt; 104

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2778

```

Met Tyr Arg Ala Lys Glu Arg Gln Phe Asp Val Pro Arg His Leu Gly
 1             5             10             15
Trp Cys Trp Glu Glu Ser Gly Trp His Met Gly Gly Arg Asn Glu Glu
      20             25             30
Arg Trp Asp Gly Lys Asp Arg Glu Asp Thr Gln Gly Ala Leu Arg Val
      35             40             45
Gly Arg Gly Ala Thr Phe Thr Trp Gly Arg Glu Gly Gly Phe Cys Glu
      50             55             60
Trp Ser Gln Val Lys Gly Gly Cys Phe Met Val Gln Gly Ser Gln Gly
      65             70             75             80
Phe Ser Gly Gly Gly Met Cys Val Cys Arg Arg Ile Gly Asp Glu Asp
      85             90             95
Gly Pro Lys Thr Leu Leu Arg His
      100

```

&lt;210&gt; 2779

&lt;211&gt; 226

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2779

```

Met Ser Ser Pro Thr Ala Ser Ser Thr Thr Pro Arg Cys Gly Thr Ser
 1             5             10             15
Ala Gly Pro Ala Ser Pro Thr Trp Arg Cys Arg Ala Thr Ala Leu Arg
      20             25             30
Leu His His Pro Val Asp Gln Leu Pro His Gln Val Leu Gln Pro Thr
      35             40             45
Thr Gly Gln Arg Gln Pro Gly Thr Gly Leu Pro Trp His Ser Thr Pro
      50             55             60
Ala Gln Leu Ala Leu Ala Gly Leu Arg Gln Ala Gln Pro His Pro Gln

```

&lt;211&gt; 218

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2780

Met	Gly	Ala	Leu	Asp	Gly	Ser	Leu	Val	Leu	Ala	Gln	Gly	Val	Asn	Asp
1				5					10					15	
Asp	Thr	Asp	Ser	Met	Pro	His	Pro	Leu	Ser	Cys	Pro	Ala	Ser	Leu	Thr
			20					25					30		
Lys	Thr	Glu	Trp	Pro	Phe	His	Phe	Tyr	Ser	Pro	Arg	Val	Ser	Glu	Asp
		35					40					45			
Val	Gly	Cys	Gly	Arg	Gly	Arg	Arg	Gly	Arg	Arg	Lys	Thr	Arg	Asn	Gly

50                      55                      60  
 Gly Arg Glu Leu Cys Ala Arg Asp Thr Gly Ser Glu Thr Gln Gln His  
 65                      70                      75                      80  
 Ser Ser Lys Arg Pro Pro Ala Pro Arg Pro Val Thr Pro Thr Ala Gly  
                     85                      90                      95  
 Ala Ile His Lys Thr Thr Gly His Pro Arg Cys Thr Arg Leu Ser Gln  
                     100                      105                      110  
 Glu Pro Phe Cys Gln Arg Pro Gln Ala Gly Cys Pro Pro His Trp Ala  
                     115                      120                      125  
 Ala Arg Val Gly Gly Ala Ala Val Ala Leu Val Pro Ser Gly Cys Leu  
                     130                      135                      140  
 Ser Asn Arg Cys Gln Pro Thr Asn Cys Ser Pro Ala Gly Pro Arg Asp  
 145                      150                      155                      160  
 Gln Pro Asp Thr Leu Pro Thr Glu Asp Glu Val Leu His Cys Glu Gly  
                     165                      170                      175  
 Pro His Cys Pro Ala Val Pro Asp Thr Ala Pro Leu Ser Met Arg Glu  
                     180                      185                      190  
 Ala Pro His Leu Ala Pro Arg Ser Pro Ala His Thr Ser Gln Gln Pro  
                     195                      200                      205  
 Gly Pro Gly Trp Leu Pro Ser Ser Lys Pro  
                     210                      215

<210> 2781

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2781

Met Asn Cys Gly Leu Thr Val Cys Ser Arg Pro Leu Ser Ala Phe His  
 1                      5                      10                      15  
 Ser Val Thr Ala Ile Phe Pro Cys Lys Ile Gly Gly Gly Glu Arg Val  
                     20                      25                      30  
 Gly Leu Leu Gly Glu Val Leu Asp Leu Ser Ala Ile Cys Phe Val Pro  
                     35                      40                      45  
 Trp Val Ser Pro Glu Ile Arg Ala Phe Gly Trp Val Cys Ser Leu Lys

50                      55                      60  
 Val Glu Asn Gly Phe Cys Leu Arg Gly Cys Val Ser Ile Thr Ser Ser  
 65                      70                      75                      80  
 Met Val Cys Cys Tyr Ser Thr Ser Arg Leu Pro Phe Glu His Pro Phe  
                     85                      90                      95  
 Arg Lys Glu Arg Lys Val Asn Lys Leu His Phe Thr His Cys Val Ser  
                     100                      105                      110  
 Gly Thr Ser Cys Thr  
                     115

<210> 2782

<211> 137

<212> PRT

<213> Homo sapiens

<400> 2782

Met Ser Leu Trp Val Pro Ser Gly Leu His Glu Asn Leu Thr Asp Ala  
 1                      5                      10                      15  
 Thr Thr Glu Gly Thr Gly Phe Arg Arg Ser Trp Gln Tyr Val Ser Ser  
                     20                      25                      30  
 Ala Glu Gly Thr Gly Phe Arg Arg Ser Trp Gln Tyr Val Ser Ser Ala  
                     35                      40                      45  
 Asn Leu Arg Gly Glu Thr Asn Ala His Ser Pro Glu Glu Met Arg Thr  
                     50                      55                      60  
 His Phe Cys Met Pro Pro Ser Pro Thr Pro Leu Pro Leu Ala Gln Pro  
 65                      70                      75                      80  
 Tyr Val Leu Phe Phe Ala Phe Asp Phe Pro Arg Leu His Leu Phe Leu  
                     85                      90                      95  
 Leu Phe Phe Phe Phe Ser Pro Thr Glu Ser Arg Phe Val Ala Gln Thr  
                     100                      105                      110  
 Val Val Gln Trp Cys Asp His Gly Ser Leu Gln Ser Pro Pro Pro Gly  
                     115                      120                      125  
 Leu Asn Asp Thr Pro Ala Ser Ala Ser  
                     130                      135

&lt;210&gt; 2783

&lt;211&gt; 480

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2783

```

Met Asp Pro His Thr Glu Glu Leu Pro Gln Tyr Ile His Ile Asn Gln
  1              5              10              15
Asn Glu Phe Cys Ile Arg Arg His Lys Lys Gln Lys Glu Glu Asp Ile
      20              25              30
Ala Ile Cys Glu Cys Lys Tyr Asp Ala Asp Asp Pro Asp Asn Ala Cys
      35              40              45
Gly Asp Ser Cys Leu Asn Val Leu Thr Ser Thr Glu Cys Thr Pro Gly
      50              55              60
Tyr Cys His Cys Asp Ile Leu Cys Lys Asn Gln Lys Phe Gln Lys Cys
      65              70              75              80
Glu Tyr Ala Lys Thr Lys Leu Phe Lys Thr Glu Gly Arg Gly Trp Gly
      85              90              95
Leu Leu Ala Asp Glu Asp Ile Lys Ala Gly Gln Phe Val Ile Glu Tyr
      100             105             110
Cys Gly Glu Val Ile Ser Trp Lys Glu Ala Lys Arg Arg Ser Gln Ala
      115             120             125
Tyr Glu Asn Gln Gly Leu Lys Asp Ala Phe Ile Ile Phe Leu Asn Val
      130             135             140
Ser Glu Ser Ile Asp Ala Thr Arg Lys Gly Ser Leu Ala Arg Phe Ile
      145             150             155             160
Asn His Ser Cys Gln Pro Asn Cys Glu Thr Arg Lys Trp Asn Val Leu
      165             170             175
Gly Glu Ile Arg Val Gly Ile Phe Ala Lys His Asp Ile Pro Ile Gly
      180             185             190
Thr Glu Leu Ala Tyr Asp Tyr Asn Phe Glu Trp Phe Gly Gly Ala Lys
      195             200             205
Val Arg Cys Leu Cys Gly Ala Leu Lys Cys Ser Gly Phe Leu Gly Ala
      210             215             220
Lys Ser Arg Gly Phe Gln Glu Asp Thr Tyr Leu Trp Glu Asp Asp Asp

```



225	230	235	240
Gly Arg Tyr Ser Val Glu Lys Ile Pro Val Tyr Asp Ser Ala Glu Asp			
245	250	255	
Glu Pro Val Ser Asn Phe Asn Gly Arg Thr Glu Pro Ser Leu Asp Val			
260	265	270	
Ile Val Lys Ala Glu Gln Leu Ser Glu Ser Thr Ala Phe His Val Gln			
275	280	285	
Pro Leu Asp Ser Val Gln Met Lys Asp Leu Asp Val Lys Lys Ile Lys			
290	295	300	
Thr Asp Val Ala Asp Glu Asp Met Asn Phe Tyr Ser Gln Asp Ser Glu			
305	310	315	320
His Thr Leu Ser Gln Lys Asn Ala Ile Ser His Ile Arg Ser Asn Thr			
325	330	335	
Ala Gly Arg Asn Tyr Cys Leu Gly Pro Arg Ser Met Ser Thr Lys Arg			
340	345	350	
Ser Arg Ala Tyr Asn Gly Gly Arg Phe Lys Asn Leu Ile Glu Lys Lys			
355	360	365	
Ile Asp Val Lys Phe Ala Ala Ala Leu Leu Ala Ser Lys Glu Ala Gln			
370	375	380	
Glu Glu Ile Phe Asn Cys Glu Lys Met Lys Asp Asp Ala Thr Ser Ala			
385	390	395	400
Leu Asp Ser Leu Tyr Asp Glu Ile Arg Pro Ala Ile Glu Glu His Glu			
405	410	415	
Arg Asp Ser Gln Asp Ser Val Ser Thr Thr Val Ala Glu Lys Trp Ile			
420	425	430	
Gln Ala Cys Cys Leu Lys Leu Lys Ala Glu Phe Asp Leu Tyr Ser Ser			
435	440	445	
Ile Val Lys Asn Val Ala Cys Thr Ala Gln Arg Ala Ser Gly Gln Val			
450	455	460	
Lys Pro Thr Glu Val Asp Asn Glu Asn Glu Ile Lys Leu Leu Thr Gly			
465	470	475	480

&lt;210&gt; 2784

&lt;211&gt; 163

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2784

```

Met Ile Gly His Lys Thr Ser Leu Asn Lys Phe Lys Lys Ile Glu Ile
 1             5             10             15
Ile Ser Ser Thr Leu Ser Asp His Ser Gly Ile Lys Leu Glu Ile Asn
      20             25             30
Ser Lys Arg Asn Phe Gln Asn His Ala Asn Thr Trp Lys Leu Asn Asn
      35             40             45
Leu Leu Leu Lys Glu His Trp Val Lys Asn Glu Ile Lys Met Glu Ile
      50             55             60
Lys Lys Phe Phe Lys Leu Asn Asp Asn Asn Asp Thr Thr Tyr Gln Lys
      65             70             75             80
Leu Trp Asp Ser Ala Lys Ala Val Leu Arg Gly Lys Phe Ile Ala Leu
      85             90             95
Asn Ala Tyr Ile Glu Thr Ser Glu Arg Ala Gln Thr Asp Asn Leu Arg
      100            105            110
Ser His Leu Lys Glu Leu Glu Lys Gln Lys Gln Thr Lys Pro Lys Pro
      115            120            125
Ser Arg Arg Lys Glu Ile Thr Lys Ile Arg Ala Glu Leu His Glu Ile
      130            135            140
Glu Thr Ser Lys Gln Thr Lys Asn Thr Lys Asp Lys Trp Asn Lys Lys
      145            150            155            160
Leu Phe Leu

```

<210> 2785

<211> 473

<212> PRT

<213> Homo sapiens

<400> 2785

```

Met Arg Ser Leu Pro Ser Asn Gly Glu Leu Asp Pro Asp Val Leu Glu
 1             5             10             15
Ser Met Ala Ser Leu Gly Cys Phe Arg Asp Arg Glu Arg Leu His Arg

```

	20		25		30	
Glu	Leu	Arg	Ser	Glu	Glu	Glu
	35		40		45	
Leu	Leu	Asp	Arg	Lys	Glu	Arg
	50		55		60	
Pro	Pro	Arg	Asn	Asp	Val	Asp
	65		70		75	
Met	Leu	Ser	Arg	His	Gly	Lys
			85		90	
Val	Leu	Ser	Ile	Thr	Asp	Ala
			100		105	
Arg	Arg	Ala	Leu	Glu	Met	Ala
			115		120	
Ser	Gly	Ala	Ser	Thr	Gly	Leu
			130		135	
Ser	Pro	Val	Phe	Ser	Phe	Ser
			145		150	
Arg	Gly	Gly	Gly	Ser	Pro	Thr
					165	
Gly	Pro	Arg	Gly	Gly	Gly	Ala
			180		185	
Arg	Ser	Thr	Pro	Leu	Pro	Gly
			195		200	
Gly	Thr	Pro	Leu	His	Ser	Pro
			210		215	
Gly	Thr	Pro	Gly	Thr	Thr	Pro
			225		230	
Gly	Ala	Ala	Trp	Arg	Ser	Arg
					245	
Gly	Ser	Pro	Arg	Phe	His	Arg
			260		265	
Glu	Met	Ser	Ser	Leu	Thr	Pro
			275		280	
Ser	Trp	Phe	Gly	Asn	Phe	Ile
			290		295	
Leu	Val	Leu	Lys	Asp	Lys	Pro

305                      310                      315                      320  
 His Ala Phe Leu Ser Ile Pro Ser Leu Ser His Ser Val Leu Ser Gln  
                          325                      330                      335  
 Thr Ser Phe Arg Ala Glu Tyr Lys Ala Ser Gly Gly Pro Ser Val Phe  
                          340                      345                      350  
 Gln Lys Pro Val Arg Phe Gln Val Asp Ile Ser Ser Ser Glu Gly Pro  
                          355                      360                      365  
 Glu Pro Ser Pro Arg Arg Asp Gly Ser Gly Gly Gly Gly Ile Tyr Ser  
                          370                      375                      380  
 Val Thr Phe Thr Leu Ile Ser Gly Pro Ser Arg Arg Phe Lys Arg Val  
 385                      390                      395                      400  
 Val Glu Thr Ile Gln Ala Gln Leu Leu Ser Thr His Asp Gln Pro Ser  
                          405                      410                      415  
 Val His Ala Leu Ala Asp Glu Lys Asn Gly Ala Gln Thr Arg Pro Ala  
                          420                      425                      430  
 Gly Ala Pro Pro Arg Ser Leu Gln Pro Pro Pro Gly Arg Pro Asp Pro  
                          435                      440                      445  
 Glu Leu Ser Ser Ser Pro Arg Arg Gly Pro Pro Lys Asp Lys Lys Leu  
                          450                      455                      460  
 Leu Ala Thr Asn Gly Thr Pro Leu Pro  
 465                      470

<210> 2786

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2786

Met Leu Gln Thr Glu Ala Val Arg Thr His Ser Ser Leu Pro Pro Pro  
   1                      5                      10                      15  
 Tyr Ala Leu His Ile Phe Thr Val Cys Ser Leu Gly Trp Pro Leu Arg  
                          20                      25                      30  
 Gln Gly Arg Pro Gly Phe Ser Gly Ala Gly Leu Cys Gly Cys Ser Thr  
                          35                      40                      45  
 Pro Pro Pro Ala Ser Gly Pro Arg Pro Ala Arg Thr Trp Pro Ala Pro

50                      55                      60  
 Gln Gly Met Pro Gly Gly Trp Asp Lys Ala Val Thr Ser Gly Thr Phe  
 65                      70                      75                      80  
 Glu Met Glu Ile Ile Arg Pro Cys Asn Trp Ile Met Ala Gln Ala Ser  
                     85                      90                      95  
 Ser Ser Arg Ala Glu Trp  
                     100

<210> 2787

<211> 182

<212> PRT

<213> Homo sapiens

<400> 2787

Met Phe Ser Ala Thr Val Ser Val Met Glu Ser Pro Cys Arg Glu Pro  
 1                      5                      10                      15  
 Val Ala Ser Leu Val Pro Asn Leu Asn Arg Ser Ser Leu Ala Ser Ala  
                     20                      25                      30  
 Ser Leu Pro Val Pro Pro Pro Ala Ser Phe Thr Gly Val Cys Lys Pro  
                     35                      40                      45  
 Phe Gly Asp Thr Ser Ala Leu Leu Ser Trp Asp Thr Ser Arg Leu Ile  
                     50                      55                      60  
 Gly Thr Ser Leu Ser Arg Thr Leu Phe Ser Phe Gly Glu Ser Phe Ser  
 65                      70                      75                      80  
  
 Leu Ala Phe Ser Phe Ile Cys Trp Leu Ser Leu Cys Leu Ala Ser Leu  
                     85                      90                      95  
 Ser Asn Phe Val Asn Ser Ser His Leu Arg Phe Leu Ser Ser Glu Ala  
                     100                      105                      110  
 Phe Ser Leu Glu Ser Asn Ile Phe Ser Ser Gly Phe Val Arg Met Val  
                     115                      120                      125  
 Ser Gly Leu Phe Leu Ser Cys Ser Leu Val Ala Phe Thr Ser Val Phe  
                     130                      135                      140  
 Phe Pro Arg Met Thr Val Leu Ser Phe Asp Arg Val Leu Ser Glu Ala  
 145                      150                      155                      160

Pro Ala Ala Thr Leu Ser Arg Arg Ser Arg Tyr Asp Ser Arg Ala Ile  
                   165                  170                  175

Val Glu Ser Ser Pro Met  
                   180

<210> 2788

<211> 489

<212> PRT

<213> Homo sapiens

<400> 2788

Met Ala Ala Glu Val Leu Ser Arg Arg Cys Val Leu Met Arg Leu Leu  
   1                  5                  10                  15

Asp Phe Ser Tyr Glu Gln Tyr Gln Lys Ala Leu Arg Gln Ser Ala Gly  
                   20                  25                  30

Ala Val Val Ile Ile Leu Pro Arg Ala Met Ala Ala Val Pro Gln Asp  
                   35                  40                  45

Val Val Arg Gln Phe Met Glu Ile Glu Pro Glu Met Leu Ala Met Glu  
                   50                  55                  60

Thr Ala Val Pro Val Tyr Phe Ala Val Glu Asp Glu Ala Leu Leu Ser  
   65                  70                  75                  80

Ile Tyr Lys Gln Thr Gln Ala Ala Ser Ala Ser Gln Gly Ser Ala Ser  
                   85                  90                  95

Ala Ala Glu Val Leu Leu Arg Thr Ala Thr Ala Asn Gly Phe Gln Met  
                   100                  105                  110

Val Thr Ser Gly Val Gln Ser Lys Ala Val Ser Asp Trp Leu Ile Ala  
                   115                  120                  125

Ser Val Glu Gly Arg Leu Thr Gly Leu Gly Gly Glu Asp Leu Pro Thr  
                   130                  135                  140

Ile Val Ile Val Ala His Tyr Asp Ala Phe Gly Val Ala Pro Trp Leu  
   145                  150                  155                  160

Ser Leu Gly Ala Asp Ser Asn Gly Ser Gly Val Ser Val Leu Leu Glu  
                   165                  170                  175

Leu Ala Arg Leu Phe Ser Arg Leu Tyr Thr Tyr Lys Arg Thr His Ala  
                   180                  185                  190

Ala Tyr Asn Leu Leu Phe Phe Ala Ser Gly Gly Gly Lys Phe Asn Tyr			
195	200	205	
Gln Gly Thr Lys Arg Trp Leu Glu Asp Asn Leu Asp His Thr Asp Ser			
210	215	220	
Ser Leu Leu Gln Asp Asn Val Ala Phe Val Leu Cys Leu Asp Thr Val			
225	230	235	240
Gly Arg Gly Ser Ser Leu His Leu His Val Ser Lys Pro Pro Arg Glu			
	245	250	255
Gly Thr Leu Gln His Ala Phe Leu Arg Glu Leu Glu Thr Val Ala Ala			
	260	265	270
His Gln Phe Pro Glu Val Arg Phe Ser Met Val His Lys Arg Ile Asn			
	275	280	285
Leu Ala Glu Asp Val Leu Ala Trp Glu His Glu Arg Phe Ala Ile Arg			
	290	295	300
Arg Leu Pro Ala Phe Thr Leu Ser His Leu Glu Ser His Arg Asp Gly			
305	310	315	320
Gln Arg Ser Ser Ile Met Asp Val Arg Ser Arg Val Asp Ser Lys Thr			
	325	330	335
Leu Thr Arg Asn Thr Arg Ile Ile Ala Glu Ala Leu Thr Arg Val Ile			
	340	345	350
Tyr Asn Leu Thr Glu Lys Gly Thr Pro Pro Asp Met Pro Val Phe Thr			
	355	360	365
Glu Gln Met Gln Ile Gln Gln Glu Gln Leu Asp Ser Val Met Asp Trp			
	370	375	380
Leu Thr Asn Gln Pro Arg Ala Ala Gln Leu Val Asp Lys Asp Ser Thr			
385	390	395	400
Phe Leu Ser Thr Leu Glu His His Leu Ser Arg Tyr Leu Lys Asp Val			
	405	410	415
Lys Gln His His Val Lys Ala Asp Lys Arg Asp Pro Glu Phe Val Phe			
	420	425	430
Tyr Asp Gln Leu Lys Gln Val Met Asn Ala Tyr Arg Val Lys Pro Ala			
	435	440	445
Val Phe Asp Leu Leu Leu Ala Val Gly Ile Ala Ala Tyr Leu Gly Met			
	450	455	460
Ala Tyr Val Ala Val Gln His Phe Ser Leu Leu Tyr Lys Thr Val Gln			
465	470	475	480

Arg Leu Leu Val Lys Ala Lys Thr Gln

485

<210> 2789

<211> 149

<212> PRT

<213> Homo sapiens

<400> 2789

Met Ser Tyr Leu Leu Val Ser Leu Val Trp Ser Glu Arg Pro Ser Leu

1 5 10 15

Ala His Leu Pro Arg Ala Leu Gly Ser Trp Cys Ala Gly Cys Gln Pro

20 25 30

Gly Ser Pro Ala Leu Leu Gly Asp Ala Pro Gly Leu Arg Gly Pro Gly

35 40 45

Trp Leu Trp Ser Arg Asp Ser Trp Gly Arg Gly Pro Ala Ser Asp Cys

50 55 60

Pro Gly Pro Gln Pro Pro Pro Leu Gln Gly Ile Gly Val Met Cys Ser

65 70 75 80

Ile Ile Gly Trp Gly Val Cys Val Cys Val Cys Val Cys Val Tyr Val

85 90 95

Cys Met Arg Leu Ala His Gly Lys Ala Gln Ala Asn Pro Ala Pro Arg

100 105 110

Arg Trp Ala Ala Thr Leu Pro Pro Lys His Gly Asp Val Ala Ala Ala

115 120 125

Leu Gly Pro Pro Val Gly Pro Met Gly Glu Glu Leu Pro Phe Ala Gly

130 135 140

Val Gly Ser Leu Pro

145

<210> 2790

<211> 483

<212> PRT

<213> Homo sapiens



&lt;400&gt; 2790

Met Asp Arg Phe Pro Ile Leu Phe Leu Leu Ala Thr Leu Ile Thr Leu  
 1 5 10 15  
 Ala Ser Gly Ala Arg His Asp Ile Leu Arg Leu Pro Ser Glu Ala Ser  
 20 25 30  
 Thr Phe Phe Lys Ala Pro Gly Gly Asp Gln Asn Asp Glu Gly Thr Arg  
 35 40 45  
 Trp Ala Val Leu Ile Ala Gly Ser Asn Gly Tyr Trp Asn Tyr Arg His  
 50 55 60  
 Gln Ser Asp Val Cys His Ala Tyr Gln Leu Leu Arg Lys Gly Gly Leu  
 65 70 75 80  
 Lys Glu Glu Asn Ile Val Val Phe Met Tyr Asp Asp Ile Ala Phe Asn  
 85 90 95  
 Glu Glu Asn Pro Arg Pro Gly Val Ile Ile Asn Ser Pro His Gly Asn  
 100 105 110  
 Asp Val Tyr Lys Gly Val Pro Lys Asp Tyr Ile Gly Glu Asp Val Thr  
 115 120 125  
 Val Gly Asn Phe Phe Ala Ala Ile Leu Gly Asn Lys Ser Ala Leu Thr  
 130 135 140  
 Gly Gly Ser Gly Lys Val Val Asp Ser Gly Pro Asn Asp His Ile Phe  
 145 150 155 160  
 Ile Tyr Tyr Ser Asp His Gly Gly Pro Gly Val Leu Gly Met Pro Thr  
 165 170 175  
 Asn Pro Tyr Val Tyr Ala Ser Asp Leu Ile Glu Val Leu Lys Lys Lys  
 180 185 190  
 His Ala Ser Gly Ser Tyr Lys Ser Leu Val Phe Tyr Leu Glu Ala Cys  
 195 200 205  
 Glu Ser Gly Ser Ile Phe Glu Gly Leu Leu Pro Glu Gly Leu Asn Ile  
 210 215 220  
 Tyr Ala Thr Thr Ala Ser Asn Ala Glu Glu Ser Ser Trp Gly Thr Tyr  
 225 230 235 240  
 Cys Pro Gly Glu Tyr Pro Ser Pro Pro Ser Glu Tyr Glu Thr Cys Leu  
 245 250 255  
 Gly Asp Leu Tyr Ser Val Ala Trp Met Glu Asp Ser Asp Ile His Asn  
 260 265 270

Leu Gln Thr Glu Thr Leu His Gln Gln Tyr Glu Leu Val Lys Gln Arg  
 275 280 285  
 Thr Met Asn Gly Asn Ser Ile Tyr Gly Ser His Val Met Gln Tyr Gly  
 290 295 300  
 Asp Ile Gly Leu Ser Glu Asn Asn Leu Val Leu Tyr Leu Gly Thr Asn  
 305 310 315 320  
 Pro Ala Asn Asp Asn Phe Thr Phe Val Leu Lys Asn Ser Leu Val Pro  
 325 330 335  
 Pro Ser Lys Ala Val Asn Gln Arg Asp Ala Asp Leu Ile His Phe Trp  
 340 345 350  
 Asp Lys Phe Arg Lys Ala Pro Val Gly Ser Ser Arg Lys Ala Ala Ala  
 355 360 365  
 Glu Lys Gln Ile Leu Glu Ala Met Ser His Arg Met His Ile Asp Asp  
 370 375 380  
 Ser Met Lys Arg Ile Gly Lys Leu Phe Phe Gly Ile Glu Lys Gly Pro  
 385 390 395 400  
 Glu Leu Leu Ser Ser Val Arg Pro Ala Gly Gln Pro Leu Val Asp Asp  
 405 410 415  
 Trp Asp Cys Leu Lys Thr Leu Val Arg Thr Phe Glu Thr His Cys Gly  
 420 425 430  
 Ser Leu Ser Gln Tyr Gly Met Lys His Met Arg Ser Phe Ala Asn Phe  
 435 440 445  
 Cys Asn Ala Gly Ile Arg Lys Glu Gln Met Ala Glu Ala Ser Ala Gln  
 450 455 460  
 Ala Cys Val Asn Ile Pro Ala Ser Ser Trp Ser Ser Met His Arg Gly  
 465 470 475 480  
 Phe Ser Ala

<210> 2791

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2791

Met Ala Glu Asn Lys Tyr Ile Cys His Glu Leu Gly Leu Tyr Gly Ile  
 1 5 10 15  
 Ile Glu Cys Ser Tyr Trp Ser Tyr Val Ile Trp Ala Thr Trp Lys Lys  
 20 25 30  
 Asp Glu Lys Asp Pro Val Cys Leu Gln Lys Gly Lys Ser Asn Ser Ser  
 35 40 45  
 Cys Thr Ser Gly Asn Cys Asn Pro Leu Glu Leu Ile Ile Thr Asn Pro  
 50 55 60  
 Gln Asp Pro His Trp Lys Thr Gly Glu Asn Val Asn Leu Gly Ile Asp  
 65 70 75 80  
 Gly Thr Gly Leu Asp Pro Arg Val Asn Leu Leu Ile Gln Gly Glu Ile  
 85 90 95  
 His Lys Arg Ser Pro Lys Pro Val Phe Gln Thr Phe  
 100 105

<210> 2792

<211> 319

<212> PRT

<213> Homo sapiens

<400> 2792

Met Lys Ile Asp Ile His Ser His Ile Leu Pro Lys Glu Trp Pro Asp  
 1 5 10 15  
 Leu Lys Lys Arg Phe Gly Tyr Gly Gly Trp Val Gln Leu Gln His His  
 20 25 30  
 Ser Lys Gly Glu Ala Lys Leu Leu Lys Asp Gly Lys Val Phe Arg Val  
 35 40 45  
 Val Arg Glu Asn Cys Trp Asp Pro Glu Val Arg Ile Arg Glu Met Asp  
 50 55 60  
 Gln Lys Gly Val Thr Val Gln Ala Leu Ser Thr Val Pro Val Met Phe  
 65 70 75 80  
 Ser Tyr Trp Ala Lys Pro Glu Asp Thr Leu Asn Leu Cys Gln Leu Leu  
 85 90 95  
 Asn Asn Asp Leu Ala Ser Thr Val Val Ser Tyr Pro Arg Arg Phe Val  
 100 105 110



Leu Val Leu Gly Thr Tyr Thr Leu Trp Val Leu Arg Lys Gly Trp Ser  
                   20                                  25                                  30  
 Tyr Asn Asp Ser Lys Leu Phe Ser His Trp Ser Tyr Asn Asn Ser Lys  
                   35                                  40                                  45  
 Leu Phe Ser Gln Arg Gln Lys His Asp Phe Lys Met Thr Ser Leu Val  
                   50                                  55                                  60  
 Arg Phe Ser Gly Val Trp Lys Asp Leu Ile Ile Leu Pro Leu Leu Lys  
                   65                                  70                                  75                                  80  
 Pro Glu Thr Tyr Asn Leu Lys Pro Glu Ile Tyr His Lys Glu Leu Gly  
                                   85                                  90                                  95  
 Lys Leu Cys Gln Ile Pro  
                                   100

<210> 2794

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2794

Met Thr Glu Leu Cys Asn Gly Arg Arg Ala Met Cys Ser Gly Asp Gln  
                   1                                  5                                  10                                  15  
 Phe Thr Val Leu Cys Arg Asp Arg Lys Lys Pro Phe Ile Arg Ala Ala  
                                   20                                  25                                  30  
 Gly Trp Glu Pro Gly Arg Arg Lys Asp His Asp Pro Leu Pro Gly Thr  
                                   35                                  40                                  45  
 Trp Pro Phe Cys Thr Pro Gln Ser Pro Ser Arg Cys His Asn Glu Lys  
                                   50                                  55                                  60  
 Ala His Ile Leu Gly Thr Ala Leu Glu Ala Phe His His Trp Leu His  
                                   65                                  70                                  75                                  80  
 Ser Pro Leu Gln Thr His Cys Leu Ala Pro Thr Leu Phe Arg Pro Pro  
                                   85                                  90                                  95  
 His Ser Met Leu Ser Thr Ala Ser Thr Pro Ala Thr  
                                   100                                  105

&lt;210&gt; 2795

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2795

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Met Gly Leu Ala Thr Phe His Ala Leu Cys Val Leu Leu Thr Cys Leu
 1              5              10              15
Ser Ser Arg Ser Tyr Arg Leu Gln Ile Gly His Phe Leu Cys Leu Val
      20              25              30
Ile Leu Val Tyr Cys Ala Glu Tyr Ile Asn Glu Ala Ala Ala Met Asn
      35              40              45
Trp Arg Leu Phe Ser Lys Tyr Gln Tyr Phe Asp Ser Arg Gly Met Phe
      50              55              60
Ile Ser Ile Val Phe Ser Ala Pro Leu Leu Val Asn Ala Met Ile Ile
      65              70              75              80
Val Val Met Trp Val Trp Lys Thr Leu Asn Val Met Thr Asp Leu Lys
      85              90              95
Asn Ala Gln Glu Arg Arg Lys Glu Lys Lys Arg Arg Arg Lys Glu Asp
      100              105              110

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&lt;210&gt; 2796

&lt;211&gt; 226

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2796

```

Met Gln Ser Ser Leu Lys Leu Val Asp Cys Ile Ile Glu Val His Asp
 1              5              10              15
Ala Arg Ile Pro Leu Ser Gly Arg Asn Pro Leu Phe Gln Glu Thr Leu
      20              25              30
Gly Leu Lys Pro His Leu Leu Val Leu Asn Lys Met Asp Leu Ala Asp
      35              40              45
Leu Thr Glu Gln Gln Lys Ile Met Gln His Leu Glu Gly Glu Gly Leu
      50              55              60

```

Met Cys Ser Ser Gln Lys Pro Ala Ser Gln Arg Glu Asp Ser Leu Thr  
1 5 10 15  
Cys Val Ala Ala Thr Thr Phe Gln Lys Val Leu Asp Glu Cys Gln Asn  
20 25 30  
Gln Arg Ala Cys His Leu Leu Val Asn Ser Arg Val Phe Gly Pro Asp  
35 40 45

Leu Cys Pro Gly Ser Ser Lys Tyr Leu Leu Val Ser Phe Lys Cys Gln  
 50 55 60  
 Pro Asn Glu Leu Lys Asn Lys Thr Val Cys Glu Asp Gln Glu Leu Lys  
 65 70 75 80  
 Leu His Cys His Glu Ser Lys Phe Leu Asn Ile Tyr Ser Ala Thr Tyr  
 85 90 95  
 Gly Arg Arg Thr Gln Glu Arg Asp Ile Cys Ser Ser Lys Ala Glu Arg  
 100 105 110  
 Leu Pro Pro Phe Asp Cys Leu Ser Tyr Ser Ala Leu Gln Val Leu Ser  
 115 120 125  
 Arg Arg Cys Tyr Gly Lys Gln Arg Cys Lys Ile Ile Val Asn Asn His  
 130 135 140  
 His Phe Gly Ser Pro Cys Leu Pro Gly Val Lys Lys Tyr Leu Thr Val  
 145 150 155 160  
 Thr Tyr Ala Cys Val Pro Lys Asn Ile Leu Thr Ala Ile Asp Pro Ala  
 165 170 175  
 Ile Ala Asn Leu Lys Pro Ser Leu Lys Gln Lys Asp Gly Glu Tyr Gly  
 180 185 190  
 Ile Asn Phe Asp Pro Ser Gly Ser Lys Val Leu Arg Lys Asp Gly Ile  
 195 200 205  
 Leu Val Ser Asn Ser Leu Ala Ala Phe Ala Tyr Ile Arg Ala His Pro  
 210 215 220  
 Glu Arg Ala Ala Leu Leu Phe Val Ser Ser Val Cys Ile Gly Leu Ala  
 225 230 235 240  
 Leu Thr Leu Cys Ala Leu Val Ile Arg Glu Ser Cys Ala Lys Asp Phe  
 245 250 255  
 Arg Asp Leu Gln Leu Gly Arg Glu Gln Leu Val Pro Gly Ser Asp Lys  
 260 265 270  
 Val Glu Glu Asp Ser Glu Asp Glu Glu Glu Glu Glu Asp Pro Ser Glu  
 275 280 285  
 Ser Asp Phe Pro Gly Glu Leu Ser Gly Phe Cys Arg Thr Ser Tyr Pro  
 290 295 300  
 Ile Tyr Ser Ser Ile Glu Ala Ala Glu Leu Ala Glu Arg Ile Glu Arg  
 305 310 315 320  
 Arg Glu Gln Ile Ile Gln Glu Ile Trp Met Asn Ser Gly Leu Asp Thr  
 325 330 335



Ser Leu Pro Arg Asn Met Gly Gln Phe Tyr  
                   340                  345

<210> 2798

<211> 152

<212> PRT

<213> Homo sapiens

<400> 2798

Met Met Glu Lys Ile Pro Ile Leu Arg Ser Leu Arg Ala Arg Glu Gln  
   1                  5                  10                  15  
 Gln Ala Gly Lys Asp Val Thr Leu Gln Gly Glu His Gln His Leu Pro  
                   20                  25                  30  
 Glu Pro Gly Cys Gln Gln Thr Val Pro Leu Ser Val Gly Arg Arg Pro  
                   35                  40                  45  
 Pro Asp Thr Pro Gly Pro Glu Thr Asn Ser Met Glu Ala Ala Pro Gly  
                   50                  55                  60  
 Ser Pro Pro Gly Glu Gly Ala Pro Leu Ala Ala Asp Val Tyr Val Gly  
   65                  70                  75                  80  
 Asn Leu Pro Gly Asp Ala Arg Val Ser Asp Leu Lys Arg Ala Leu Arg  
                   85                  90                  95  
 Glu Leu Gly Ser Val Pro Leu Arg Leu Thr Trp Gln Gly Pro Arg Arg  
                   100                  105                  110  
 Arg Ala Phe Leu His Tyr Pro Asp Ser Ala Ala Ala Gln Gln Ala Val  
                   115                  120                  125  
 Ser Cys Leu Gln Gly Leu Arg Leu Gly Thr Asp Thr Leu Arg Val Ala  
                   130                  135                  140  
 Leu Ala Arg Gln Gln Arg Asp Lys  
 145                  150

<210> 2799

<211> 105

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2799

Met Gly His Ser Arg Val Thr Leu Asn Leu Gln Asp Arg Arg Arg Pro  
 1 5 10 15  
 Ser Ser Gly Leu Leu Ser His Lys Gly Pro Pro Phe Lys Ala Glu Glu  
 20 25 30  
 Pro Pro Arg Ser Lys Glu Gly Ala Phe Gly Gly Ser Ile Ser Cys Leu  
 35 40 45  
 Ser Gln Ile Leu Ala Pro Pro Gln Gly Cys Ser Gln Gly Cys Val Gln  
 50 55 60  
 Glu Ala Lys Asp Pro Arg Pro Ser Ala Gln Leu Leu Pro Thr Arg Thr  
 65 70 75 80  
 Thr Cys Leu Ser Arg Gly Ser His Leu Leu His Arg Phe Arg Asn Arg  
 85 90 95  
 Leu His Val His Gly Ala Gly Pro Arg  
 100 105

&lt;210&gt; 2800

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2800

Met Gly Thr Arg Arg Ser Lys Ala Glu Glu Gly Gly Gly Asp Met Arg  
 1 5 10 15  
 Pro Leu Gln Ser Leu Ser Gly Ile Arg Asp Leu Arg Ala Cys Ser Pro  
 20 25 30  
 Gly Tyr Ser Thr Leu Ser Ala Glu Asp Asn Val Ser Leu Gly Gln Pro  
 35 40 45  
 Pro Leu Gly Leu Gly Asn Thr Thr Leu Arg Pro Gln Cys Pro Leu Phe  
 50 55 60  
 Leu Ser Pro Ser Trp Val Gly Gly Gly Leu Phe Lys Asp Ile Pro Thr  
 65 70 75 80  
 Gly Phe Gly Ala Lys Pro Phe Leu Gln Arg Glu Lys Arg Val Ser Arg

85 90 95

Arg Ser Val Arg Arg

100

&lt;210&gt; 2801

&lt;211&gt; 165

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2801

[illegible]

&lt;210&gt; 2802

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2802

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Met Arg Thr Ser Ser Trp His Leu Ser Pro His Pro Met Cys His Gly
  1             5             10             15
Gly Arg Phe Cys Arg Pro Pro Pro Pro Gly Ala Pro Arg Ala Val Pro
      20             25             30
Gly Pro Val Ala Ser Lys Gly Gly Cys Ser Trp Ala Leu Leu Ala Trp
      35             40             45
Thr Ala Ala Leu Ala Ala Leu Gly Glu Gly Pro Leu Val Gln Pro Ala
      50             55             60
Phe Leu Leu Leu Gly Phe Arg Val Thr Asp Ala Pro Ser Cys Gly Val
      65             70             75             80
Val Ser His Ile Cys Phe Ala Val Lys Lys Trp Gly Thr Pro Ser Pro
      85             90             95
Gly Leu Gln Ser Pro Ala Leu Pro Leu Ser Gly Asp Gly Phe Gln Gln
      100            105            110
Leu Leu Ala Leu Gly Ala Lys Leu Leu Phe Gln Glu Ala Phe Gly Glu
      115            120            125
Leu Gly Ser Glu Leu Trp Gly Gly Thr Ala Leu Leu Cys Arg Leu Pro
      130            135            140
Pro Ser Ser Pro Pro Gly Ser Leu Asp Pro Thr Leu Ala Pro Leu Leu
      145            150            155            160
Thr Gly Thr Gly Gly Ser Gly Val Arg Gly Leu Leu Pro Leu His Pro
      165            170            175
Asp Phe Leu Val Cys Met Gly Ser Ser Pro Pro Leu
      180            185

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&lt;210&gt; 2803

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2803

Met Gly Arg Val Gly Thr Asp Ala Gly Ile Ala His Lys Met Leu Ala  
 1 5 10 15  
 Gln Gly Thr Leu His Gly Arg Ser Leu Gln Glu Ser Lys Val Thr Thr  
 20 25 30  
 Phe Arg Asp Ser Leu His Ser Glu Ala Arg Arg Ala Trp Pro Thr Lys  
 35 40 45  
 Arg Gly Trp Glu Asp Val Ala Cys Trp Ser Gly Gln Pro Ser Asp Gln  
 50 55 60  
 Gly Gly Arg Val Arg Leu Gly Gly Trp Cys Pro Leu Val Arg Ala Ala  
 65 70 75 80  
 Glu Arg Gly Trp Glu Asp Gly Ala Cys Trp Ser Gly Gln Pro Ser Gly  
 85 90 95  
 Gln Gly Gly Gln Ala Arg Gln Gly Gly Arg Tyr Pro Pro Val Arg Ala  
 100 105 110  
 Ala Glu Gln Ser Trp Lys Asp Gly Ala Cys Trp Ser Gly Arg Leu Asn  
 115 120 125  
 Glu Ala Gly Arg Met Val Ser Ala Gly Gln Gly Ser Ser Gly Gly Ala  
 130 135 140  
 Ala Gln Glu Val Leu Ser Arg Gln Ser Leu Gly Leu Val Trp Val Cys  
 145 150 155 160  
 His Ala Pro Glu Lys Phe Leu Gly Cys Gly Phe Asn Val Leu Leu Gln  
 165 170 175

&lt;210&gt; 2804

&lt;211&gt; 272

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2804

Met Val Ala Trp Arg Ser Ala Phe Leu Val Cys Leu Ala Phe Ser Leu  
 1 5 10 15  
 Ala Thr Leu Val Gln Arg Gly Ser Gly Asp Phe Asp Asp Phe Asn Leu  
 20 25 30  
 Glu Asp Ala Val Lys Glu Thr Ser Ser Val Lys Gln Pro Trp Asp His

35	40	45
Thr Thr Thr Thr Thr Thr	Asn Arg Pro Gly Thr Thr	Arg Ala Pro Ala
50	55	60
Lys Pro Pro Gly Pro Thr	Glu Gly Ser Gly Leu Asp	Leu Ala Asp Ala
65	70	75
Leu Asp Asp Gln Asp Asp	Gly Arg Arg Lys Pro Gly	Ile Gly Gly Arg
85	90	95
Glu Arg Trp Asn His Val Thr	Thr Thr Thr Thr Lys Arg	Pro Val Thr Thr
100	105	110
Arg Ala Pro Ala Asn Thr	Leu Gly Asn Asp Phe Asp	Leu Ala Asp Ala
115	120	125
Leu Asp Asp Gln Asn Asp	Arg Asp Asp Gly Arg Arg	Lys Pro Ile Ala
130	135	140
Gly Gly Gly Gly Phe Ser	Asp Lys Asp Leu Glu Asp	Ile Val Gly Gly
145	150	155
Gly Glu Tyr Lys Pro Asp	Lys Gly Lys Gly Asp Gly	Arg Tyr Gly Ser
165	170	175
Asn Asp Asp Pro Gly Ser	Gly Met Val Ala Glu Pro	Gly Thr Ile Ala
180	185	190
Gly Val Ala Ser Ala Leu	Ala Met Ala Leu Ile Gly	Ala Val Ser Ser
195	200	205
Tyr Ile Ser Tyr Gln Gln	Lys Lys Phe Cys Phe Ser	Ile Gln His Ala
210	215	220
Ala Ala Gly Gln Glu Gly	Leu Asn Ala Asp Tyr Val	Lys Gly Glu Asn
225	230	235
Leu Glu Ala Val Val Cys	Glu Glu Pro Gln Val Lys	Tyr Ser Thr Leu
245	250	255
His Thr Gln Ser Ala Glu	Pro Pro Pro Pro Glu Pro	Ala Arg Ile
260	265	270

&lt;210&gt; 2805

&lt;211&gt; 193

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2805

Met Pro Arg Cys Ala Lys Ala Lys Ser Gln Pro His Phe Pro Val Leu  
 1 5 10 15  
 Ala Gln Tyr Ile Leu Asn Glu Ser Glu Ala Arg Val Lys Ala Glu Leu  
 20 25 30  
 Trp Met Arg Glu Asn Ala Glu Tyr Leu Arg Glu Gln Arg Glu Lys Glu  
 35 40 45  
 Ala Arg Ile Ala Lys Glu Lys Glu Leu Gly Ile Tyr Lys Glu His Lys  
 50 55 60  
 Pro Lys Lys Ser Cys Lys Arg Arg Glu Pro Ile Gln Ala Ser Thr Ala  
 65 70 75 80  
 Arg Glu Ala Ile Glu Lys Met Leu Glu Gln Lys Lys Ile Ser Ser Lys  
 85 90 95  
 Ile Asn Tyr Ser Val Leu Arg Gly Leu Ser Ser Ala Gly Gly Gly Ser  
 100 105 110  
 Pro His Arg Glu Asp Ala Gln Pro Glu His Ser Ala Ser Ala Arg Lys  
 115 120 125  
 Leu Ser Arg Arg Arg Thr Pro Ala Ser Arg Ser Gly Ala Asp Pro Val  
 130 135 140  
 Thr Ser Val Gly Lys Arg Leu Arg Pro Leu Val Ser Thr Gln Pro Ala  
 145 150 155 160  
 Lys Lys Val Ala Thr Gly Glu Val Cys Cys Pro Thr Gln Pro Gly Gln  
 165 170 175  
 Gly Asp Leu Gly Arg Gln Pro Thr Ser Ser Trp Ala Gln Met Leu Gly  
 180 185 190  
 Leu

&lt;210&gt; 2806

&lt;211&gt; 150

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2806

Met Ser Ala Met Gly Ser Val Arg Pro Val Ala Gly Gln His Ser His

1	5	10	15
Leu Arg Ala Gly Ala Pro Val Leu Pro Arg Pro Trp Ala Cys Phe Ala			
20	25	30	
Asn Thr Ser Met Ala Gly Ala Ser Pro Gly Asn Trp Leu Gln Leu Ser			
35	40	45	
Val Thr His Gly Arg Gln Cys Arg Ala Gly Arg Arg Gly Asp Gln Arg			
50	55	60	
Leu Ser Leu Thr Leu Pro His Gly Val Ser Thr Ala Ala Ala Ser Leu			
65	70	75	80
Gly Pro Gln Leu Leu Glu Tyr Glu Phe Ser Phe Leu Pro Gly Trp Ser			
85	90	95	
Ser Pro Gln His Trp Asn Pro His Pro His Pro Leu Ser Cys Pro Leu			
100	105	110	
Lys Gly Leu Glu Phe Pro Ala Leu Val Cys Leu Trp Val Ala Pro Gln			
115	120	125	
Ala Pro Val Gly Arg Phe Ser Ser Cys His Thr Phe Gly Thr Ser Ser			
130	135	140	
Ser Val Asn Ser Leu His			
145	150		

&lt;210&gt; 2807

&lt;211&gt; 572

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2807

Met Glu Phe Val Leu Ser Val Ala Gly Glu Ile Ile Gly Leu Gly Asn			
1	5	10	15
Val Trp Arg Phe Pro Tyr Leu Cys Tyr Lys Asn Gly Gly Gly Ala Phe			
20	25	30	
Phe Ile Pro Tyr Phe Ile Phe Phe Phe Val Cys Gly Ile Pro Val Phe			
35	40	45	
Phe Leu Glu Val Ala Leu Gly Gln Tyr Thr Ser Gln Gly Ser Val Thr			
50	55	60	
Ala Trp Arg Lys Ile Cys Pro Leu Phe Gln Gly Ile Gly Leu Ala Ser			



65	70	75	80
Val Val Ile Glu Ser Tyr Leu Asn Val Tyr Tyr Ile Ile Ile Leu Ala			
	85	90	95
Trp Ala Leu Phe Tyr Leu Phe Ser Ser Phe Thr Ser Glu Leu Pro Trp			
	100	105	110
Thr Thr Cys Asn Asn Phe Trp Asn Thr Glu His Cys Thr Asp Phe Leu			
	115	120	125
Asn His Ser Gly Ala Gly Thr Val Thr Pro Phe Glu Asn Phe Thr Ser			
	130	135	140
Pro Val Met Glu Phe Trp Glu Arg Arg Val Leu Gly Ile Thr Ser Gly			
145	150	155	160
Ile His Asp Leu Gly Ser Leu Arg Trp Glu Leu Ala Leu Cys Leu Leu			
	165	170	175
Leu Ala Trp Val Ile Cys Tyr Phe Cys Ile Trp Lys Gly Val Lys Ser			
	180	185	190
Thr Gly Lys Val Val Tyr Phe Thr Ala Thr Phe Pro Tyr Leu Met Leu			
	195	200	205
Val Ile Leu Leu Ile Arg Gly Val Thr Leu Pro Gly Ala Tyr Gln Gly			
	210	215	220
Ile Ile Tyr Tyr Leu Lys Pro Asp Leu Phe Arg Leu Lys Asp Pro Gln			
225	230	235	240
Val Trp Met Asp Ala Gly Thr Gln Ile Phe Phe Ser Phe Ala Ile Cys			
	245	250	255
Gln Gly Cys Leu Thr Ala Leu Gly Ser Tyr Asn Lys Tyr His Asn Asn			
	260	265	270
Cys Tyr Lys Asp Cys Ile Ala Leu Cys Phe Leu Asn Ser Ala Thr Ser			
	275	280	285
Phe Val Ala Gly Phe Val Val Phe Ser Ile Leu Gly Phe Met Ser Gln			
	290	295	300
Glu Gln Gly Val Pro Ile Ser Glu Val Ala Glu Ser Gly Pro Gly Leu			
305	310	315	320
Ala Phe Ile Ala Phe Pro Lys Ala Val Thr Met Met Pro Leu Ser Gln			
	325	330	335
Leu Trp Ser Cys Leu Phe Phe Ile Met Pro Ile Phe Leu Gly Leu Asp			
	340	345	350
Ser Gln Phe Val Cys Val Glu Cys Leu Val Thr Ala Ser Ile Asp Met			

355	360	365
Phe Pro Arg Gln Leu Arg Lys Ser Gly Arg Arg Glu Leu Leu Ile Leu		
370	375	380
Thr Ile Ala Val Met Cys Tyr Leu Ile Gly Leu Phe Leu Val Thr Glu		
385	390	395
Gly Gly Met Tyr Ile Phe Gln Leu Phe Asp Tyr Tyr Ala Ser Ser Gly		
405	410	415
Ile Cys Leu Leu Phe Leu Ser Leu Phe Glu Val Val Cys Ile Ser Trp		
420	425	430
Val Tyr Gly Ala Asp Arg Phe Tyr Asp Asn Ile Glu Asp Met Ile Gly		
435	440	445
Tyr Arg Pro Trp Pro Leu Val Lys Ile Ser Trp Leu Phe Leu Thr Pro		
450	455	460
Gly Leu Cys Leu Ala Thr Phe Leu Phe Ser Leu Ser Lys Tyr Thr Pro		
465	470	475
Leu Lys Tyr Asn Asn Val Tyr Val Tyr Pro Pro Trp Gly Tyr Ser Ile		
485	490	495
Gly Trp Phe Leu Ala Leu Ser Ser Met Val Cys Val Pro Leu Phe Val		
500	505	510
Val Ile Thr Leu Leu Lys Thr Arg Gly Pro Phe Arg Lys Arg Leu Arg		
515	520	525
Gln Leu Ile Thr Pro Asp Ser Ser Leu Pro Gln Pro Lys Gln His Pro		
530	535	540
Cys Leu Asp Gly Ser Ala Gly Arg Asn Phe Gly Pro Ser Pro Thr Arg		
545	550	555
Glu Gly Leu Ile Ala Gly Glu Lys Glu Thr His Leu		
565	570	

&lt;210&gt; 2808

&lt;211&gt; 357

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2808

Met Asp Ser Val Glu Lys Thr Thr Asn Arg Ser Glu Gln Lys Ser Arg

1	5	10	15
Lys Phe Leu Lys Ser Leu Ile Arg	Lys Gln Pro Gln Glu Leu Leu Leu		
20	25	30	
Val Ile Gly Thr Gly Val Ser Ala	Ala Val Ala Pro Gly Ile Pro Ala		
35	40	45	
Leu Cys Ser Trp Arg Ser Cys Ile	Glu Ala Val Ile Glu Ala Ala Glu		
50	55	60	
Gln Leu Glu Val Leu His Pro Gly	Asp Val Ala Glu Phe Arg Arg Lys		
65	70	75	80
Val Thr Lys Asp Arg Asp Leu Leu	Val Val Ala His Asp Leu Ile Arg		
85	90	95	
Lys Met Ser Pro Arg Thr Gly Asp	Ala Lys Pro Ser Phe Phe Gln Asp		
100	105	110	
Cys Leu Met Glu Val Phe Asp Asp	Leu Glu Gln His Ile Arg Ser Pro		
115	120	125	
Leu Val Leu Gln Ser Ile Leu Ser	Leu Met Asp Arg Gly Ala Met Val		
130	135	140	
Leu Thr Thr Asn Tyr Asp Asn Leu	Leu Glu Ala Phe Gly Arg Arg Gln		
145	150	155	160
Asn Lys Pro Met Glu Ser Leu Asp	Leu Lys Asp Lys Thr Lys Val Leu		
165	170	175	
Glu Trp Ala Arg Gly His Met Lys	Tyr Gly Val Leu His Ile His Gly		
180	185	190	
Leu Tyr Thr Asp Pro Cys Gly Val	Val Leu Asp Pro Ser Gly Tyr Lys		
195	200	205	
Asp Val Thr Gln Asp Ala Glu Val	Met Glu Val Leu Gln Asn Leu Tyr		
210	215	220	
Arg Thr Lys Ser Phe Leu Phe Val	Gly Cys Gly Glu Thr Leu His Asp		
225	230	235	240
Gln Ile Phe Gln Ala Leu Phe Leu	Tyr Ser Val Pro Asn Lys Val Asp		
245	250	255	
Leu Glu His Tyr Met Leu Val Leu	Lys Glu Asn Glu Asp His Phe Phe		
260	265	270	
Lys His Gln Ala Asp Met Leu Leu	His Gly Ile Lys Val Val Ser Tyr		
275	280	285	
Gly Asp Cys Phe Asp His Phe Pro	Gly Tyr Val Gln Asp Leu Ala Thr		

290                      295                      300  
 Gln Ile Cys Lys Gln Gln Ser Pro Asp Ala Asp Arg Val Asp Ser Thr  
 305                      310                      315                      320  
 Thr Leu Leu Gly Asn Ala Cys Gln Asp Cys Ala Lys Arg Lys Leu Glu  
                     325                      330                      335  
 Glu Asn Gly Ile Glu Val Ser Lys Lys Arg Thr Gln Ser Asp Thr Asp  
                     340                      345                      350  
 Asp Ala Gly Gly Ser  
                     355

<210> 2809

<211> 501

<212> PRT

<213> Homo sapiens

<400> 2809

Met Gln Glu His Lys Leu Lys Val Ala Arg Leu Asp Asn Ile Phe Leu  
 1                      5                      10                      15  
 Thr Arg Met His Trp Ser Asn Val Gly Gly Leu Ser Gly Met Ile Leu  
                     20                      25                      30  
 Thr Leu Lys Glu Thr Gly Leu Pro Lys Cys Val Leu Ser Gly Pro Pro  
                     35                      40                      45  
 Gln Leu Glu Lys Tyr Leu Glu Ala Ile Lys Ile Phe Ser Gly Pro Leu  
                     50                      55                      60  
 Lys Gly Ile Glu Leu Ala Val Arg Pro His Ser Ala Pro Glu Tyr Glu  
 65                      70                      75                      80  
 Asp Glu Thr Met Thr Val Tyr Gln Ile Pro Ile His Ser Glu Gln Arg  
                     85                      90                      95  
 Arg Gly Lys His Gln Pro Trp Gln Ser Pro Glu Arg Pro Leu Ser Arg  
                     100                      105                      110  
 Leu Ser Pro Glu Arg Ser Ser Asp Ser Glu Ser Asn Glu Asn Glu Pro  
                     115                      120                      125  
 His Leu Pro His Gly Val Ser Gln Arg Arg Gly Val Arg Asp Ser Ser  
                     130                      135                      140  
 Leu Val Val Ala Phe Ile Cys Lys Leu His Leu Lys Arg Gly Asn Phe

145	150	155	160
Leu Val Leu Lys Ala Lys Glu Met Gly Leu Pro Val Gly Thr Ala Ala			
	165	170	175
Ile Ala Pro Ile Ile Ala Ala Val Lys Asp Gly Lys Ser Ile Thr His			
	180	185	190
Glu Gly Arg Glu Ile Leu Ala Glu Glu Leu Cys Thr Pro Pro Asp Pro			
	195	200	205
Gly Ala Ala Phe Val Val Val Glu Cys Pro Asp Glu Ser Phe Ile Gln			
	210	215	220
Pro Ile Cys Glu Asn Ala Thr Phe Gln Arg Tyr Gln Gly Lys Ala Asp			
225	230	235	240
Ala Pro Val Ala Leu Val Val His Met Ala Pro Ala Ser Val Leu Val			
	245	250	255
Asp Ser Arg Tyr Gln Gln Trp Met Glu Arg Phe Gly Pro Asp Thr Gln			
	260	265	270
His Leu Val Leu Asn Glu Asn Cys Ala Ser Val His Asn Leu Arg Ser			
	275	280	285
His Lys Ile Gln Thr Gln Leu Asn Leu Ile His Pro Asp Ile Phe Pro			
	290	295	300
Leu Leu Thr Ser Phe Arg Cys Lys Lys Glu Gly Pro Thr Leu Ser Val			
305	310	315	320
Pro Met Val Gln Gly Glu Cys Leu Leu Lys Tyr Gln Leu Arg Pro Arg			
	325	330	335
Arg Glu Trp Gln Arg Asp Ala Ile Ile Thr Cys Asn Pro Glu Glu Phe			
	340	345	350
Ile Val Glu Ala Leu Gln Leu Pro Asn Phe Gln Gln Ser Val Gln Glu			
	355	360	365
Tyr Arg Arg Ser Ala Gln Asp Gly Pro Ala Pro Ala Glu Lys Arg Ser			
	370	375	380
Gln Tyr Pro Glu Ile Ile Phe Leu Gly Thr Gly Ser Ala Ile Pro Met			
385	390	395	400
Lys Ile Arg Asn Val Ser Ala Thr Leu Val Asn Ile Ser Pro Asp Thr			
	405	410	415
Ser Leu Leu Leu Asp Cys Gly Glu Gly Thr Phe Gly Gln Leu Cys Arg			
	420	425	430
Ile Tyr Gly Asp Gln Val Asp Arg Val Leu Gly Thr Leu Ala Ala Val			

435                      440                      445  
 Phe Val Ser His Leu His Ala Asp His His Thr Val Ser Val Gly Leu  
 450                      455                      460  
 Asp His Lys Ala Gly Ala Trp Arg Arg His Cys His Val Glu Leu Ala  
 465                      470                      475                      480  
 Leu Trp Leu Arg Leu Phe Leu Arg Phe Gln Thr Cys Pro Glu Leu Leu  
                          485                      490                      495  
 Leu Leu Ile Ser Gly  
                          500

<210> 2810

<211> 233

<212> PRT

<213> Homo sapiens

<400> 2810

Met Thr Pro Arg Ser Arg Gly Pro Glu Val Glu Val Lys Arg Ala Glu  
 1                      5                      10                      15  
 Pro Arg Asp Ser Lys Ser Gln Ala Pro Gly Gln Pro Gly Ala Ser Gln  
                          20                      25                      30  
 Trp Gly Ser Arg Val Val Pro Asn Ala Ala Asn Gly Trp Ala Gly Gln  
                          35                      40                      45  
 Pro Pro Pro Thr Trp Gln Gln Gly Tyr Gly Pro Gln Gly Met Trp Val  
                          50                      55                      60  
 Pro Ala Gly Gln Ala Ile Gly Gly Tyr Gly Pro Pro Pro Ala Gly Arg  
 65                      70                      75                      80  
 Gly Ala Pro Pro Pro Pro Pro Pro Phe Thr Ser Tyr Ile Val Ser Thr  
                          85                      90                      95  
 Pro Pro Gly Gly Phe Pro Pro Pro Gln Gly Phe Pro Gln Gly Tyr Gly  
                          100                      105                      110  
 Ala Pro Pro Gln Phe Ser Phe Gly Tyr Gly Pro Pro Pro Pro Pro Pro  
                          115                      120                      125  
 Asp Gln Phe Ala Pro Pro Gly Val Pro Pro Pro Pro Ala Thr Pro Gly  
                          130                      135                      140  
 Ala Ala Pro Leu Ala Phe Pro Pro Pro Pro Ser Gln Ala Ala Pro Asp

145                      150                      155                      160  
 Met Ser Lys Pro Pro Thr Ala Gln Pro Asp Phe Pro Tyr Gly Gln Tyr  
                             165                      170                      175  
 Gly Tyr Gly Gln Asp Leu Ser Gly Phe Gly Gln Gly Val Ser Asp Pro  
                             180                      185                      190  
 Ser Gln Gln Pro Pro Ser Tyr Gly Gly Pro Ser Val Pro Gly Ser Gly  
                             195                      200                      205  
 Gly Pro Pro Ala Gly Gly Ser Gly Phe Gly Arg Gly Gln Asn His Asn  
                             210                      215                      220  
 Val Gln Gly Phe His Pro Tyr Arg Arg  
 225                      230

<210> 2811

<211> 443

<212> PRT

<213> Homo sapiens

<400> 2811

Met Ile Ala Gly Ala Lys Glu Lys Met Arg Ser Asp Leu Leu Leu Glu  
   1                      5                      10                      15  
 Gly Phe Asn Asn Tyr Thr Phe Leu Ser Asn Gly Phe Val Pro Ile Pro  
                             20                      25                      30  
 Ala Ala Gln Asp Asp Glu Met Phe Gln Glu Thr Val Glu Ala Met Ala  
                             35                      40                      45  
 Ile Met Gly Phe Ser Glu Glu Glu Gln Leu Ser Ile Leu Lys Val Val  
                             50                      55                      60  
 Ser Ser Val Leu Gln Leu Gly Asn Ile Val Phe Lys Lys Glu Arg Asn  
   65                      70                      75                      80  
 Thr Asp Gln Ala Ser Met Pro Asp Asn Thr Ala Ala Gln Lys Val Cys  
                             85                      90                      95  
 His Leu Met Gly Ile Asn Val Thr Asp Phe Thr Arg Ser Ile Leu Thr  
                             100                      105                      110  
 Pro Arg Ile Lys Val Gly Arg Asp Val Val Gln Lys Ala Gln Thr Lys  
                             115                      120                      125  
 Glu Gln Ala Asp Phe Ala Val Glu Ala Leu Ala Lys Ala Thr Tyr Glu

130	135	140	
Arg Leu Phe Arg Trp Ile Leu Thr Arg Val Asn Lys Ala Leu Asp Lys			
145	150	155	160
Thr His Arg Gln Gly Ala Ser Phe Leu Gly Ile Leu Asp Ile Ala Gly			
165	170	175	
Phe Glu Ile Phe Glu Val Asn Ser Phe Glu Gln Leu Cys Ile Asn Tyr			
180	185	190	
Thr Asn Glu Lys Leu Gln Gln Leu Phe Asn His Thr Met Phe Ile Leu			
195	200	205	
Glu Gln Glu Glu Tyr Gln Arg Glu Gly Ile Glu Trp Asn Phe Ile Asp			
210	215	220	
Phe Gly Leu Asp Leu Gln Pro Cys Ile Glu Leu Ile Glu Arg Pro Asn			
225	230	235	240
Asn Pro Pro Gly Val Leu Ala Leu Leu Asp Glu Glu Cys Trp Phe Pro			
245	250	255	
Lys Ala Thr Asp Lys Ser Phe Val Glu Lys Leu Cys Thr Glu Gln Gly			
260	265	270	
Ser His Pro Lys Phe Gln Lys Pro Lys Gln Leu Lys Asp Lys Thr Glu			
275	280	285	
Phe Ser Ile Ile His Tyr Ala Gly Lys Val Asp Tyr Asn Ala Ser Ala			
290	295	300	
Trp Leu Thr Lys Asn Met Asp Pro Leu Asn Asp Asn Val Thr Ser Leu			
305	310	315	320
Leu Asn Ala Ser Ser Asp Lys Phe Val Ala Asp Leu Trp Lys Asp Val			
325	330	335	
Asp Arg Ile Val Gly Leu Asp Gln Met Ala Lys Met Thr Glu Ser Ser			
340	345	350	
Leu Pro Ser Ala Ser Lys Thr Lys Lys Gly Met Phe Arg Thr Val Gly			
355	360	365	
Gln Leu Tyr Lys Glu Gln Leu Gly Lys Leu Met Thr Thr Leu Arg Asn			
370	375	380	
Thr Thr Pro Asn Phe Val Arg Cys Ile Ile Pro Asn His Glu Lys Arg			
385	390	395	400
Val Arg Pro Ala Ala Gln Thr Leu Gly Leu Pro Glu Ala Arg Ala Val			
405	410	415	
Pro Ser Gly His Ser Val Pro Arg Ala Pro Ser Ala Pro Thr Tyr Pro			



420                      425                      430  
 Glu Asp Pro Ile Phe His Val Gly Lys Ala Ile  
 435                      440

<210> 2812

<211> 134

<212> PRT

<213> Homo sapiens

<400> 2812

Met His Trp Ala Leu Thr Gly Leu Asp Gly Lys Leu Pro Ser Cys His  
 1                      5                      10                      15  
 Phe Leu Ala Val Gly Leu Gln Val Gly Pro Ser Thr Ser Leu Cys Leu  
 20                      25                      30  
 Ser Cys Leu Thr Asp Lys Ile Glu Ile Thr Thr Val Pro Thr Trp Asp  
 35                      40                      45  
 Asp Phe Phe Ser Phe Leu Phe Phe Trp Phe Leu Phe Leu Leu Phe Phe  
 50                      55                      60  
 Ile Phe Leu Arg Trp Ser Leu Thr Leu Val Ala Gln Ala Gly Val Gln  
 65                      70                      75                      80  
 Trp Leu Asp Ile Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Gln  
 85                      90                      95  
 Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg His Pro Pro  
 100                      105                      110  
 Pro Cys Pro Ala Ser Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro  
 115                      120                      125  
 Tyr Trp Pro Gly Trp Ser  
 130

<210> 2813

<211> 1253

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2813

Met Ile Lys Glu Ala Arg Arg Thr Ala Glu Gln Ala Ser Lys Pro Lys  
 1 5 10 15  
 Val Pro Pro Lys Ser Glu Lys Glu Asn Asp Pro Leu Arg Thr Pro Glu  
 20 25 30  
 Ala Leu Pro Glu Glu Lys Lys Ile Glu Tyr Arg Leu Leu Lys Glu Glu  
 35 40 45  
 Ile Ala Asn Arg Glu Lys Gln Arg Leu Ile Lys Ser Asp Gln Leu Lys  
 50 55 60  
 Thr Ser Ser Ser Ser Pro Ala Asn Ser Asp Val Glu Ile Asp Gly Ile  
 65 70 75 80  
 Gly Arg Ile Ala Met Val Thr Lys Gln Val Thr Asp Ala Glu Ser Lys  
 85 90 95  
 Leu Lys Lys His Arg Ile Leu Leu Met Lys Asp Glu Ser Val Leu Lys  
 100 105 110  
 Asn Leu Val Gln Gln Glu Ala Lys Lys Lys Glu Ser Val Arg Asn Ala  
 115 120 125  
 Glu Ala Lys Ile Thr Lys Leu Thr Glu Gln Leu Gln Ala Thr Glu Lys  
 130 135 140  
 Ile Leu Asn Val Asn Arg Met Phe Leu Lys Lys Leu Gln Glu Gln Ile  
 145 150 155 160  
 His Arg Val Gln Gln Arg Val Thr Ile Lys Lys Ala Leu Thr Leu Lys  
 165 170 175  
 Tyr Gly Glu Glu Leu Ala Arg Ala Lys Ala Val Ala Ser Lys Glu Ile  
 180 185 190  
 Gly Lys Arg Lys Leu Glu Gln Asp Arg Phe Gly Pro Asn Lys Met Met  
 195 200 205  
 Arg Leu Asp Ser Ser Pro Val Ser Ser Pro Arg Lys His Ser Ala Glu  
 210 215 220  
 Leu Ile Ala Met Glu Lys Arg Arg Leu Gln Lys Leu Glu Tyr Glu Tyr  
 225 230 235 240  
 Ala Leu Lys Ile Gln Lys Leu Lys Glu Ala Arg Ala Leu Lys Ala Lys  
 245 250 255  
 Glu Gln Gln Asn Ile Ser Pro Val Val Glu Glu Glu Pro Glu Phe Ser  
 260 265 270  
 Leu Pro Gln Pro Ser Leu His Asp Leu Thr Gln Asp Lys Leu Thr Leu

275	280	285
Asp Thr Glu Glu Asn Asp Val	Asp Asp Glu Ile Leu Ser Gly Ser Ser	
290	295	300
Arg Glu Arg Arg Arg Ser Phe Leu Glu Ser Asn Tyr Phe Thr Lys Pro		
305	310	315
Asn Leu Lys His Thr Asp Thr Ala Asn Lys Glu Cys Ile Asn Lys Leu		
325	330	335
Asn Lys Asn Thr Val Glu Lys Pro Glu Leu Phe Leu Gly Leu Lys Ile		
340	345	350
Gly Glu Leu Gln Lys Leu Tyr Ser Lys Ala Asp Ser Leu Lys Gln Leu		
355	360	365
Ile Leu Lys Thr Thr Thr Gly Ile Thr Glu Lys Val Leu His Gly Gln		
370	375	380
Glu Ile Ser Val Asp Val Asp Phe Val Thr Ala Gln Ser Lys Thr Met		
385	390	395
Glu Val Lys Pro Cys Pro Phe Arg Pro Tyr His Ser Pro Leu Leu Val		
405	410	415
Phe Lys Ser Tyr Arg Phe Ser Pro Tyr Tyr Arg Thr Lys Glu Lys Leu		
420	425	430
Pro Leu Ser Ser Val Ser Tyr Ser Asn Met Ile Glu Pro Asp Gln Cys		
435	440	445
Phe Cys Arg Phe Asp Leu Thr Gly Thr Cys Asn Asp Asp Asp Cys Gln		
450	455	460
Trp Gln His Ile Gln Asp Tyr Thr Leu Ser Arg Lys Gln Leu Phe Gln		
465	470	475
Asp Ile Leu Ser Tyr Asn Leu Ser Leu Ile Gly Cys Ala Glu Thr Ser		
485	490	495
Thr Asn Glu Glu Ile Thr Ala Ser Ala Glu Lys Tyr Val Glu Lys Leu		
500	505	510
Phe Gly Val Asn Lys Asp Arg Met Ser Met Asp Gln Met Ala Val Leu		
515	520	525
Leu Val Ser Asn Ile Asn Glu Ser Lys Gly His Thr Pro Pro Phe Thr		
530	535	540
Thr Tyr Lys Asp Lys Arg Lys Trp Lys Pro Lys Phe Trp Arg Lys Pro		
545	550	555
Ile Ser Asp Asn Ser Phe Ser Ser Asp Glu Glu Gln Ser Thr Gly Pro		

	565		570		575
Ile Lys Tyr Ala Phe Gln Pro Glu Asn Gln Ile Asn Val Pro Ala Leu					
	580		585		590
Asp Thr Val Val Thr Pro Asp Asp Val Arg Tyr Phe Thr Asn Glu Thr					
	595		600		605
Asp Asp Ile Ala Asn Leu Glu Ala Ser Val Leu Glu Asn Pro Ser His					
	610		615		620
Val Gln Leu Trp Leu Lys Leu Ala Tyr Lys Tyr Leu Asn Gln Asn Glu					
625		630		635	640
Gly Glu Cys Ser Glu Ser Leu Asp Ser Ala Leu Asn Val Leu Ala Arg					
	645		650		655
Ala Leu Glu Asn Asn Lys Asp Asn Pro Glu Ile Trp Cys His Tyr Leu					
	660		665		670
Arg Leu Phe Ser Lys Arg Gly Thr Lys Asp Glu Val Gln Glu Met Cys					
	675		680		685
Glu Thr Ala Val Glu Tyr Ala Pro Asp Tyr Gln Ser Phe Trp Thr Phe					
	690		695		700
Leu His Leu Glu Ser Thr Phe Glu Glu Lys Asp Tyr Val Cys Glu Arg					
705		710		715	720
Met Leu Glu Phe Leu Met Gly Ala Ala Lys Gln Glu Thr Ser Asn Ile					
	725		730		735
Leu Ser Phe Gln Leu Leu Glu Ala Leu Leu Phe Arg Val Gln Leu His					
	740		745		750
Ile Phe Thr Gly Arg Cys Gln Ser Ala Leu Ala Ile Leu Gln Asn Ala					
	755		760		765
Leu Lys Ser Ala Asn Asp Gly Ile Val Ala Glu Tyr Leu Lys Thr Ser					
	770		775		780
Asp Arg Cys Leu Ala Trp Leu Ala Tyr Ile His Leu Ile Glu Phe Asn					
785		790		795	800
Ile Leu Pro Ser Lys Phe Tyr Asp Pro Ser Asn Asp Asn Pro Ser Arg					
	805		810		815
Ile Val Asn Thr Glu Ser Phe Val Met Pro Trp Gln Ala Val Gln Asp					
	820		825		830
Val Lys Thr Asn Pro Asp Met Leu Leu Ala Val Phe Glu Asp Ala Val					
	835		840		845
Lys Ala Cys Thr Asp Glu Ser Leu Ala Val Glu Glu Arg Ile Glu Ala					

850	855	860	
Cys Leu Pro Leu Tyr Thr Asn Met Ile Ala Leu His Gln Leu Leu Glu			
865	870	875	880
Arg Tyr Glu Ala Ala Met Glu Leu Cys Lys Ser Leu Leu Glu Ser Cys			
885	890	895	
Pro Ile Asn Cys Gln Leu Leu Glu Ala Leu Val Ala Leu Tyr Leu Gln			
900	905	910	
Thr Asn Gln His Asp Lys Ala Arg Ala Val Trp Leu Thr Ala Phe Glu			
915	920	925	
Lys Asn Pro Gln Asn Ala Glu Val Phe Tyr His Met Cys Lys Phe Phe			
930	935	940	
Ile Leu Gln Asn Arg Gly Asp Asn Leu Leu Pro Phe Leu Arg Lys Phe			
945	950	955	960
Ile Ala Ser Phe Phe Lys Pro Gly Phe Glu Lys Tyr Asn Asn Leu Asp			
965	970	975	
Leu Phe Arg Tyr Leu Leu Asn Ile Pro Gly Pro Ile Asp Ile Pro Ser			
980	985	990	
Arg Leu Cys Lys Gly Asn Phe Asp Asp Asp Met Phe Asn His Gln Val			
995	1000	1005	
Pro Tyr Leu Trp Leu Ile Tyr Cys Leu Cys His Pro Leu Gln Ser Ser			
1010	1015	1020	
Ile Lys Glu Thr Val Glu Ala Tyr Glu Ala Ala Leu Gly Val Ala Met			
1025	1030	1035	1040
Arg Cys Asp Ile Val Gln Lys Ile Trp Met Asp Tyr Leu Val Phe Ala			
1045	1050	1055	
Asn Asn Arg Ala Ala Gly Ser Arg Asn Lys Val Gln Glu Phe Lys Phe			
1060	1065	1070	
Phe Thr Asp Leu Val Asn Arg Cys Leu Val Thr Val Pro Ala Arg Tyr			
1075	1080	1085	
Pro Ile Pro Phe Ser Ser Ala Asp Tyr Trp Ser Asn Tyr Glu Phe His			
1090	1095	1100	
Asn Arg Val Ile Phe Phe Tyr Leu Ser Cys Val Pro Lys Thr Gln His			
1105	1110	1115	1120
Ser Lys Thr Leu Glu Arg Phe Cys Ser Val Met Pro Ala Asn Ser Gly			
1125	1130	1135	
Leu Ala Leu Arg Leu Leu Gln His Glu Trp Glu Glu Ser Asn Val Gln			

1140	1145	1150	
Ile Leu Lys Leu Gln Ala Lys Met Phe Thr Tyr Asn Ile Pro Thr Cys			
1155	1160	1165	
Leu Ala Thr Trp Lys Ile Ala Ile Ala Ala Glu Ile Val Leu Lys Gly			
1170	1175	1180	
Gln Arg Glu Val His Arg Leu Tyr Gln Arg Ala Leu Gln Lys Leu Pro			
1185	1190	1195	1200
Leu Cys Ala Ser Leu Trp Lys Asp Gln Leu Leu Phe Glu Ala Ser Glu			
1205	1210	1215	
Gly Gly Lys Thr Asp Asn Leu Arg Lys Leu Val Ser Lys Cys Gln Glu			
1220	1225	1230	
Ile Gly Val Ser Leu Asn Glu Leu Leu Asn Leu Asn Ser Asn Lys Thr			
1235	1240	1245	
Glu Ser Lys Asn His			
1250			

&lt;210&gt; 2814

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2814

Met Arg Gly His Trp Lys Val Thr Glu Ile Leu Arg Ile Thr Ile Leu			
1	5	10	15
Leu Leu Gly Lys Pro Gly Gly Gly Trp Ala His Ser Trp Gly Ala Tyr			
20	25	30	
Glu Ser Gly Pro Gly Glu Gly Val Arg Ala Pro Trp Lys Ile Leu Arg			
35	40	45	
Asp Ala Gly Ile Leu Leu Gly Phe Phe Trp Glu Ala Glu Asp Val Ser			
50	55	60	
Asp Ile Ala Arg Ile Leu Met Glu Ile Arg Gly Pro Gly Asp Arg Asn			
65	70	75	80
Pro Gly Asp Ser Glu Ser Leu Leu Gly Lys Phe Leu Gly Gly Arg Ser			
85	90	95	
Ser Ser Thr Ser Gly His Ser Trp Leu Pro Val Trp Lys His Leu Pro			

100 105 110  
 Arg Arg Gly Gly Tyr Gly Asn Ile Arg Lys Ser Arg Val Asn Lys Asn  
 115 120 125  
 Arg Arg Thr Asp Arg Gly Lys Ala Glu Ala Arg  
 130 135

<210> 2815

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2815

Met Gly Arg Val Val Ser Asp Gly Glu Leu Gly Phe Val Gly Arg Val  
 1 5 10 15  
 Val Ser Asp Gly Glu Leu Gly Phe Val Gly Arg Val Val Ser Asp Gly  
 20 25 30  
 Glu Leu Gly Phe Val Gly Arg Val Val Ser Asp Gly Glu Leu Gly Phe  
 35 40 45  
 Val Ser Arg Val Val Ser Asp Ala Glu Leu Gly Phe Val Gly Arg Val  
 50 55 60  
 Val Ser Asp Gly Glu Leu Glu Phe Val Gly Arg Val Val Ser Asp Ala  
 65 70 75 80  
 Glu Leu Gly Phe Val Gly Arg Val Val Ser Asp Gly Glu Leu Gly Phe  
 85 90 95  
 Val Gly Arg Val Val Ser Asp Ala Glu Leu Gly Phe Met Gly Arg Val  
 100 105 110  
 Val Ser Asp Gly Glu Leu Gly Phe Val Gly Arg Val Val Gly Cys Pro  
 115 120 125  
 Thr Val Ser Leu Phe  
 130

<210> 2816

<211> 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2816

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Met Glu Gly Asp Cys Leu Lys Val Val Cys Ser Ser Gln Leu Ser Phe
  1             5             10             15
Phe Leu Val Thr Ser Pro Ser Ile Pro Leu Gly Arg Gly Arg Gly Gly
      20             25             30
Val Gly Leu Ile Ala Phe Asn Leu Asp Ser Cys Thr Ile Pro His Gly
      35             40             45
Ser Leu Leu Gln Thr Phe Ala Lys Asn Pro Ser Pro His Glu Gln Asn
      50             55             60
Phe Ser Ala Cys Ser Leu Cys Ser Ser Lys Val Leu Leu Gly Asn Arg
      65             70             75             80
Gln Phe Cys Arg His Phe His Cys Lys Gln Asn Pro Ser Glu Glu Met
      85             90             95
Val Ala Ser Val Gln Asp Thr Asn Gln His Gly Asn Leu His Tyr Arg
      100            105            110
Met Arg Thr Val Phe Pro Leu Pro Gln Val Gly His Arg Pro Pro
      115            120            125

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&lt;210&gt; 2817

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2817

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Met Thr Cys Ser Val Thr His Ile Val Ser Phe Ser Leu Pro Phe Leu
  1             5             10             15
Asn Pro Ser His Pro Ala Ser Thr Pro Gly His Thr Glu Asn Glu Gln
      20             25             30
Pro Ser Leu Val Trp Phe Asp Arg Gly Lys Phe Tyr Leu Thr Phe Glu
      35             40             45
Gly Ser Ser Arg Gly Pro Ser Pro Leu Thr Met Gly Ala Gln Asp Thr
      50             55             60

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Leu Pro Val Ala Ala Ala Phe Thr Glu Thr Val Asn Ala Tyr Phe Lys  
 65 70 75 80  
 Gly Ala Asp Pro Ser Lys Cys Ile Val Lys Ile Thr Gly Glu Met Val  
 85 90 95  
 Leu Ser Phe Pro Ala Gly Ile Thr Arg His Phe Ala Asn Asn Pro Ser  
 100 105 110  
 Pro Ala Ala Leu Thr Phe Arg Val Ile Asn Phe Ser Arg Leu Glu His  
 115 120 125  
 Val Leu Pro Asn Pro Gln Leu Leu Cys Cys Asp Asn Thr Gln Asn Asp  
 130 135 140  
 Ala Asn Thr Lys Glu Phe Trp Val Asn Met Pro Asn Leu Met Thr His  
 145 150 155 160  
 Leu Lys Lys Val Ser Glu Gln Lys Pro Gln Ala Thr Tyr Tyr Asn Val  
 165 170 175  
 Asp Met Leu Lys Tyr Gln Val Ser Ala Gln Gly Ile Gln Ser Thr Pro  
 180 185 190  
 Leu Asn Leu Ala Val Asn Trp Arg Cys Glu Pro Ser Ser Thr Asp Leu  
 195 200 205  
 Arg Ile Asp Tyr Lys Tyr Asn Thr Asp Ala Met Thr Thr Ala Val Ala  
 210 215 220  
 Leu Asn Asn Val Gln Phe Leu Val Pro Ile Asp Gly Gly Val Thr Lys  
 225 230 235 240  
 Leu Gln Ala Val Leu Pro Pro Ala Val Trp Asn Ala Glu Gln Gln Arg  
 245 250 255  
 Ile Leu Trp Lys Ile Pro Asp Ile Ser Gln Lys Ser Glu Asn Gly Gly  
 260 265 270  
 Val Gly Ser Leu Leu Ala Arg Phe Gln Leu Ser Glu Gly Pro Ser Lys  
 275 280 285  
 Pro Ser Pro Leu Val Val Gln Phe Thr Ser Glu Gly Ser Thr Leu Ser  
 290 295 300  
 Gly Cys Asp Ile Glu Leu Val Gly Ala Gly Tyr Arg Phe Ser Leu Ile  
 305 310 315 320  
 Lys Lys Arg Phe Ala Ala Gly Lys Tyr Leu Ala Asp Asn  
 325 330

&lt;210&gt; 2818

&lt;211&gt; 296

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2818

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Met Thr Gly Lys Gln Ile Phe Gly Asn Ile Lys Glu Ala Ile Tyr Pro
  1             5             10             15
Leu Ala Leu Asn Trp Trp Arg Arg Arg Lys Ala Arg Thr Asn Ser Glu
             20             25             30
Lys Leu Tyr Ser Arg Trp Glu Gln Asp His Asp Leu Glu Ser Phe Gly
             35             40             45
Pro Leu Gly Leu Phe Tyr Glu Tyr Leu Glu Thr Val Thr Gln Phe Gly
             50             55             60
Phe Val Thr Leu Phe Val Ala Ser Phe Pro Leu Ala Pro Leu Leu Ala
             65             70             75             80
Leu Ile Asn Asn Ile Val Glu Ile Arg Val Asp Ala Trp Lys Leu Thr
             85             90             95
Thr Gln Tyr Arg Arg Thr Val Ala Ser Lys Ala His Ser Ile Gly Val
             100            105            110
Trp Gln Asp Ile Leu Tyr Gly Met Ala Val Leu Ser Val Ala Thr Asn
             115            120            125
Ala Phe Ile Val Ala Phe Thr Ser Asp Ile Ile Pro Arg Leu Val Tyr
             130            135            140
Tyr Tyr Ala Tyr Ser Thr Asn Ala Thr Gln Pro Met Thr Gly Tyr Val
             145            150            155            160
Asn Asn Ser Leu Ser Val Phe Leu Ile Ala Asp Phe Pro Asn His Thr
             165            170            175
Ala Pro Ser Glu Lys Arg Asp Phe Ile Thr Cys Arg Tyr Arg Asp Tyr
             180            185            190
Arg Tyr Pro Pro Asp Asp Glu Asn Lys Tyr Phe His Asn Met Gln Phe
             195            200            205
Trp His Val Leu Ala Ala Lys Met Thr Phe Ile Ile Val Met Glu His
             210            215            220
Val Val Phe Leu Val Lys Phe Leu Leu Ala Trp Met Ile Pro Asp Val
             225            230            235            240

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&lt;211&gt; 215

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2819

Met	Asp	Glu	Leu	Pro	Ala	Ala	Phe	Val	Asp	Gly	Ser	Lys	Asn	Gly	Gly
1				5					10					15	
Asp	Lys	His	Gly	Ala	Asn	Ser	Leu	Lys	Ile	Thr	Glu	Lys	Val	Ser	Gly
			20					25					30		
Gln	His	Val	Glu	Ile	Gln	Ala	Lys	Tyr	Ile	Gly	Thr	Thr	Ile	Val	Val
			35					40					45		
Arg	Gln	Val	Gly	Arg	Tyr	Leu	Thr	Phe	Ala	Val	Arg	Met	Pro	Glu	Glu
			50					55				60			
Val	Val	Asn	Ala	Val	Glu	Asp	Trp	Asp	Ser	Gln	Gly	Leu	Tyr	Leu	Cys
65					70					75					80
Leu	Arg	Gly	Cys	Pro	Leu	Asn	Gln	Gln	Ile	Asp	Phe	Gln	Ala	Phe	His
				85						90				95	
Thr	Asn	Ala	Glu	Gly	Thr	Gly	Ala	Arg	Arg	Leu	Ala	Ala	Ala	Ser	Pro
			100					105					110		
Ala	Pro	Thr	Ala	Pro	Glu	Thr	Phe	Pro	Tyr	Glu	Thr	Ala	Val	Ala	Lys
			115					120					125		
Cys	Lys	Glu	Lys	Leu	Pro	Val	Glu	Asp	Leu	Tyr	Tyr	Gln	Ala	Cys	Val
			130					135				140			
Phe	Asp	Leu	Leu	Thr	Thr	Gly	Asp	Val	Asn	Phe	Thr	Leu	Ala	Ala	Tyr
145					150					155					160

Tyr Ala Leu Glu Asp Val Lys Met Leu His Ser Asn Lys Asp Lys Leu  
                     165                    170                    175  
 His Leu Tyr Glu Arg Thr Arg Asp Leu Pro Gly Arg Ala Ala Ala Gly  
                     180                    185                    190  
 Leu Pro Leu Ala Pro Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu  
                     195                    200                    205  
 Ala Leu Leu Pro Val Phe Cys  
                     210                    215

<210> 2820

<211> 1520

<212> PRT

<213> Homo sapiens

<400> 2820

Met Tyr Gly Glu Asp Pro Ser Asn Ala Met Pro Val Ile Phe Gly Lys  
   1                    5                    10                    15  
 Ser Ser Cys Ser Glu Phe Ser Lys Glu Ala Tyr Thr Ala Val Val Tyr  
                     20                    25                    30  
 His Asn Arg Ser Pro Asp Phe His Glu Glu Ile Lys Val Lys Leu Pro  
                     35                    40                    45  
 Ala Thr Leu Thr Asp His His His Leu Leu Phe Thr Phe Tyr His Val  
                     50                    55                    60  
 Ser Cys Gln Gln Lys Gln Asn Thr Pro Leu Glu Thr Pro Val Gly Tyr  
   65                    70                    75                    80  
 Thr Trp Ile Pro Met Leu Gln Asn Gly Arg Leu Lys Thr Gly Gln Phe  
                     85                    90                    95  
 Cys Leu Pro Val Ser Leu Glu Lys Pro Pro Gln Ala Tyr Ser Val Leu  
                     100                    105                    110  
 Ser Pro Glu Val Pro Leu Pro Gly Met Lys Trp Val Asp Asn His Lys  
                     115                    120                    125  
 Gly Val Phe Asn Val Glu Val Val Ala Val Ser Ser Ile His Thr Gln  
                     130                    135                    140  
 Asp Pro Tyr Leu Asp Lys Phe Phe Ala Leu Val Asn Ala Leu Asp Glu

145	150	155	160
Arg Leu Phe Pro Val	Arg Ile Gly Asp Met	Arg Ile Met Glu Asn Asn	
165	170	175	
Leu Glu Asn Glu Leu Lys Ser Ser Ile Ser Ala Leu Asn Ser Ser Gln			
180	185	190	
Leu Glu Pro Val Val Arg Phe Leu His Leu Leu Leu Asp Lys Leu Ile			
195	200	205	
Leu Leu Val Ile Arg Pro Pro Val Ile Ala Gly Gln Ile Val Asn Leu			
210	215	220	
Gly Gln Ala Ser Phe Glu Ala Met Ala Ser Ile Ile Asn Arg Leu His			
225	230	235	240
Lys Asn Leu Glu Gly Asn His Asp Gln His Gly Arg Asn Ser Leu Leu			
245	250	255	
Ala Ser Tyr Ile His Tyr Val Phe Arg Leu Pro Asn Thr Tyr Pro Asn			
260	265	270	
Ser Ser Ser Pro Gly Pro Gly Gly Leu Gly Gly Ser Val His Tyr Ala			
275	280	285	
Thr Met Ala Arg Ser Ala Val Arg Pro Ala Ser Leu Asn Leu Asn Arg			
290	295	300	
Ser Arg Ser Leu Ser Asn Ser Asn Pro Asp Ile Ser Gly Thr Pro Thr			
305	310	315	320
Ser Pro Asp Asp Glu Val Arg Ser Ile Ile Gly Ser Lys Ala Met Asp			
325	330	335	
Arg Ser Cys Asn Arg Met Ser Ser His Thr Glu Thr Ser Ser Phe Leu			
340	345	350	
Gln Thr Leu Thr Gly Arg Leu Pro Thr Lys Lys Leu Phe His Glu Glu			
355	360	365	
Leu Ala Leu Gln Trp Val Val Cys Ser Gly Ser Val Arg Glu Ser Ala			
370	375	380	
Leu Gln Gln Ala Trp Phe Phe Phe Glu Leu Met Val Lys Ser Met Val			
385	390	395	400
His His Leu Tyr Phe Asn Asp Lys Leu Glu Ala Pro Arg Lys Ser Arg			
405	410	415	
Phe Pro Glu Arg Phe Met Asp Asp Ile Ala Ala Leu Val Ser Thr Ile			
420	425	430	
Ala Ser Asp Ile Val Ser Arg Phe Gln Lys Asp Thr Glu Met Val Glu			

435	440	445
Arg Leu Asn Thr Ser Leu Ala Phe Phe Leu Asn Asp Leu Leu Ser Val		
450	455	460
Met Asp Arg Gly Phe Val Phe Ser Leu Ile Lys Ser Cys Tyr Lys Gln		
465	470	475
Val Ser Ser Lys Leu Tyr Ser Leu Pro Asn Pro Ser Val Leu Val Ser		
485	490	495
Leu Arg Leu Asp Phe Leu Arg Ile Ile Cys Ser His Glu His Tyr Val		
500	505	510
Thr Leu Asn Leu Pro Cys Ser Leu Leu Thr Pro Pro Ala Ser Pro Ser		
515	520	525
Pro Ser Val Ser Ser Ala Thr Ser Gln Ser Ser Gly Phe Ser Thr Asn		
530	535	540
Val Gln Asp Gln Lys Ile Ala Asn Met Phe Glu Leu Ser Val Pro Phe		
545	550	555
Arg Gln Gln His Tyr Leu Ala Gly Leu Val Leu Thr Glu Leu Ala Val		
565	570	575
Ile Leu Asp Pro Asp Ala Glu Gly Leu Phe Gly Leu His Lys Lys Val		
580	585	590
Ile Asn Met Val His Asn Leu Leu Ser Ser His Asp Ser Asp Pro Arg		
595	600	605
Tyr Ser Asp Pro Gln Ile Lys Ala Arg Val Ala Met Leu Tyr Leu Pro		
610	615	620
Leu Ile Gly Ile Ile Met Glu Thr Val Pro Gln Leu Tyr Asp Phe Thr		
625	630	635
Glu Thr His Asn Gln Arg Gly Arg Pro Ile Cys Ile Ala Thr Asp Asp		
645	650	655
Tyr Glu Ser Glu Ser Gly Ser Met Ile Ser Gln Thr Val Ala Met Ala		
660	665	670
Ile Ala Gly Thr Ser Val Pro Gln Leu Thr Arg Pro Gly Ser Phe Leu		
675	680	685
Leu Thr Ser Thr Ser Gly Arg Gln His Thr Thr Phe Ser Ala Glu Ser		
690	695	700
Ser Arg Ser Leu Leu Ile Cys Leu Leu Trp Val Leu Lys Asn Ala Asp		
705	710	715
Glu Thr Val Leu Gln Lys Trp Phe Thr Asp Leu Ser Val Leu Gln Leu		

	725		730		735
Asn Arg Leu Leu Asp Leu Leu Tyr Leu Cys Val Ser Cys Phe Glu Tyr					
	740		745		750
Lys Gly Lys Lys Val Phe Glu Arg Met Asn Ser Leu Thr Phe Lys Lys					
	755		760		765
Ser Lys Asp Met Arg Ala Lys Leu Glu Glu Ala Ile Leu Gly Ser Ile					
	770		775		780
Gly Ala Arg Gln Glu Met Val Arg Arg Ser Arg Gly Gln Leu Gly Thr					
	785		790		795
					800
Tyr Thr Ile Ala Ser Pro Pro Glu Arg Ser Pro Ser Gly Ser Ala Phe					
		805		810	815
Gly Ser Gln Gly Asn Leu Arg Trp Arg Lys Asp Met Thr His Trp Arg					
	820		825		830
Gln Asn Thr Glu Lys Leu Asp Lys Ser Arg Ala Glu Ile Glu His Glu					
	835		840		845
Ala Leu Ile Asp Gly Asn Leu Ala Thr Glu Ala Asn Leu Ile Ile Leu					
	850		855		860
Asp Thr Leu Glu Ile Val Val Gln Thr Val Ser Val Thr Glu Ser Lys					
	865		870		875
					880
Glu Ser Ile Leu Gly Gly Val Leu Lys Val Leu Leu His Ser Met Ala					
	885		890		895
Cys Asn Gln Ser Val Val Tyr Leu Gln His Cys Phe Ala Thr Gln Arg					
	900		905		910
Ala Leu Val Ser Lys Phe Pro Glu Leu Leu Phe Glu Glu Glu Thr Glu					
	915		920		925
Gln Cys Ala Asp Leu Cys Leu Arg Leu Leu Arg His Cys Ser Ser Ser					
	930		935		940
Ile Gly Thr Ile Arg Ser His Ala Ser Ala Ser Leu Tyr Leu Leu Met					
	945		950		955
					960
Arg Gln Asn Phe Glu Ile Gly Asn Asn Phe Ala Arg Val Lys Met Gln					
	965		970		975
Val Thr Met Ser Leu Ser Ser Leu Val Gly Thr Ser Gln Asn Phe Asn					
	980		985		990
Glu Glu Phe Leu Arg Arg Ser Leu Lys Thr Ile Leu Thr Tyr Ala Glu					
	995		1000		1005

Glu Asp Leu Glu Leu Arg Glu Thr Thr Phe Leu Asp Gln Val Gln Asp  
 1010 1015 1020  
 Leu Val Phe Asn Leu His Met Ile Leu Ser Asp Thr Val Lys Met Lys  
 1025 1030 1035 1040  
 Glu His Gln Glu Asp Pro Glu Met Leu Ile Asp Leu Met Tyr Arg Ile  
 1045 1050 1055  
 Ala Lys Gly Tyr Gln Thr Ser Pro Asp Leu Arg Leu Thr Trp Leu Gln  
 1060 1065 1070  
 Asn Met Ala Gly Lys His Ser Glu Arg Ser Asn His Ala Glu Ala Ala  
 1075 1080 1085  
 Gln Cys Leu Val His Ser Ala Ala Leu Val Ala Glu Tyr Leu Ser Met  
 1090 1095 1100  
 Leu Glu Asp Arg Lys Tyr Leu Pro Val Gly Cys Val Thr Phe Gln Asn  
 1105 1110 1115 1120  
 Ile Ser Ser Asn Val Leu Glu Glu Ser Ala Val Ser Asp Asp Val Val  
 1125 1130 1135  
 Ser Pro Asp Glu Glu Gly Ile Cys Ser Gly Lys Tyr Phe Thr Glu Ser  
 1140 1145 1150  
 Gly Leu Val Gly Leu Leu Glu Gln Ala Ala Ala Ser Phe Ser Met Ala  
 1155 1160 1165  
 Gly Met Tyr Glu Ala Val Asn Glu Val Tyr Lys Val Leu Ile Pro Ile  
 1170 1175 1180  
 His Glu Ala Asn Arg Asp Ala Lys Lys Leu Ser Thr Ile His Gly Lys  
 1185 1190 1195 1200  
 Leu Gln Glu Ala Phe Ser Lys Ile Val His Gln Ser Thr Gly Trp Glu  
 1205 1210 1215  
 Arg Met Phe Gly Thr Tyr Phe Arg Val Gly Phe Tyr Gly Thr Lys Phe  
 1220 1225 1230  
 Gly Asp Leu Asp Glu Gln Glu Phe Val Tyr Lys Glu Pro Ala Ile Thr  
 1235 1240 1245  
 Lys Leu Ala Glu Ile Ser His Arg Leu Glu Gly Phe Tyr Gly Glu Arg  
 1250 1255 1260  
 Phe Gly Glu Asp Val Val Glu Val Ile Lys Asp Ser Asn Pro Val Asp  
 1265 1270 1275 1280  
 Lys Cys Lys Leu Asp Pro Asn Lys Ala Tyr Ile Gln Ile Thr Tyr Val  
 1285 1290 1295



Glu Pro Tyr Phe Asp Thr Tyr Glu Met Lys Asp Arg Ile Thr Tyr Phe			
1300	1305	1310	
Asp Lys Asn Tyr Asn Leu Arg Arg Phe Met Tyr Cys Thr Pro Phe Thr			
1315	1320	1325	
Leu Asp Gly Arg Ala His Gly Glu Leu His Glu Gln Phe Lys Arg Lys			
1330	1335	1340	
Thr Ile Leu Thr Thr Ser His Ala Phe Pro Tyr Ile Lys Thr Arg Val			
1345	1350	1355	1360
Asn Val Thr His Lys Glu Glu Ile Ile Leu Thr Pro Ile Glu Val Ala			
1365	1370	1375	
Ile Glu Asp Met Gln Lys Lys Thr Gln Glu Leu Ala Phe Ala Thr His			
1380	1385	1390	
Gln Asp Pro Ala Asp Pro Lys Met Leu Gln Met Val Leu Gln Gly Ser			
1395	1400	1405	
Val Gly Thr Thr Val Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe			
1410	1415	1420	
Leu Ser Glu Ile Pro Ser Asp Pro Lys Leu Phe Arg His His Asn Lys			
1425	1430	1435	1440
Leu Arg Leu Cys Phe Lys Asp Phe Thr Lys Arg Cys Glu Asp Ala Leu			
1445	1450	1455	
Arg Lys Asn Lys Ser Leu Ile Gly Pro Asp Gln Lys Glu Tyr Gln Arg			
1460	1465	1470	
Glu Leu Glu Arg Asn Tyr His Arg Leu Lys Glu Ala Leu Gln Pro Leu			
1475	1480	1485	
Ile Asn Arg Lys Ile Pro Gln Leu Tyr Lys Ala Val Leu Pro Val Thr			
1490	1495	1500	
Cys His Arg Asp Ser Phe Ser Arg Met Ser Leu Arg Lys Met Asp Leu			
1505	1510	1515	1520

&lt;210&gt; 2821

&lt;211&gt; 112

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2821

Met His Trp Ser Trp Asn Trp Lys Ala Gln Val Gln Gly Pro Phe His  
 1 5 10 15  
 Ser Leu Ile Ile Cys Val Pro Phe Arg Lys Ser Pro Thr Ser Trp Ala  
 20 25 30  
 Ser Val Phe Ser Ser Ile Glu Cys Gly Phe Gly Gln Asp Val Leu Phe  
 35 40 45  
 Lys Lys Ile Leu Lys Lys Ile Glu Thr Glu Phe Cys His Val Ala Gln  
 50 55 60  
 Ala Gly Leu Glu Leu Leu Asp Ser Ser His Leu Pro Ala Leu Ala Phe  
 65 70 75 80  
 Gln Ser Thr Gly Ile Thr Gly Val Ser His His Ser Trp Pro Gly Gln  
 85 90 95  
 Asp Val Leu Thr Asn Ser Phe Gln Leu Gln Arg Tyr Tyr Val Ile Leu  
 100 105 110

<210> 2822

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2822

Met Ser Phe Pro His Phe Gly His Pro Tyr Arg Gly Ala Ser Gln Phe  
 1 5 10 15  
 Leu Ala Ser Ala Ser Ser Ser Thr Thr Cys Cys Glu Ser Thr Gln Arg  
 20 25 30  
 Ser Val Ser Asp Val Ala Ser Gly Ser Thr Pro Ala Pro Ala Leu Cys  
 35 40 45  
 Cys Ala Pro Tyr Asp Ser Arg Leu Leu Gly Ser Ala Arg Pro Glu Leu  
 50 55 60  
 Gly Ala Ala Leu Gly Ile Tyr Gly Ala Pro Tyr Ala Ala Ala Ala Ala  
 65 70 75 80  
 Ala Gln Ser Tyr Pro Gly Tyr Leu Pro Tyr Ser Pro Glu Pro Pro Ser  
 85 90 95  
 Leu Tyr Gly Ala Leu Asn Pro Gln Tyr Glu Phe Lys Glu Ala Ala Gly

100	105	110
Ser Phe Thr Ser Ser Leu Ala Gln Pro Gly Ala Tyr Tyr Pro Tyr Glu		
115	120	125
Arg Thr Leu Gly Gln Tyr Gln Tyr Glu Arg Tyr Gly Ala Val Glu Leu		
130	135	140
Ser Gly Ala Gly Arg Arg Lys Asn Ala Thr Arg Glu Thr Thr Ser Thr		
145	150	155
Leu Lys Ala Trp Leu Asn Glu His Arg Lys Asn Pro Tyr Pro Thr Lys		
165	170	175
Gly Glu Lys Ile Met Leu Ala Ile Ile Thr Lys Met Thr Leu Thr Gln		
180	185	190
Val Ser Thr Trp Phe Ala Asn Ala Arg Arg Arg Leu Lys Lys Glu Asn		
195	200	205
Lys Met Thr Trp Ala Pro Lys Asn Lys Gly Gly Glu Glu Arg Lys Ala		
210	215	220
Glu Gly Gly Glu Glu Asp Ser Leu Gly Cys Leu Thr Ala Asp Thr Lys		
225	230	235
Glu Val Thr Ala Ser Gln Glu Ala Arg Gly Leu Arg Leu Ser Asp Leu		
245	250	255
Glu Asp Leu Glu Glu Glu Glu Glu Glu Glu Glu Ala Glu Asp Glu		
260	265	270
Glu Val Val Ala Thr Ala Gly Asp Arg Leu Thr Glu Phe Arg Lys Gly		
275	280	285
Ala Gln Ser Leu Pro Gly Pro Cys Ala Ala Ala Arg Glu Gly Arg Leu		
290	295	300
Glu Arg Arg Glu Cys Gly Leu Ala Ala Pro Arg Phe Ser Phe Asn Asp		
305	310	315
Pro Ser Gly Ser Glu Glu Ala Asp Phe Leu Ser Ala Glu Thr Gly Ser		
325	330	335
Pro Arg Leu Thr Met His Tyr Pro Cys Leu Glu Lys Pro Arg Ile Trp		
340	345	350
Ser Leu Ala His Thr Ala Thr Ala Ser Ala Val Glu Gly Ala Pro Pro		
355	360	365
Ala Arg Pro Arg Pro Arg Ser Pro Glu Cys Arg Met Ile Pro Gly Gln		
370	375	380
Pro Pro Ala Ser Ala Arg Arg Leu Ser Val Pro Arg Asp Ser Ala Cys		

385                      390                      395                      400  
 Asp Glu Ser Ser Cys Ile Pro Lys Ala Phe Gly Asn Pro Lys Phe Ala  
                             405                      410                      415  
 Leu Gln Gly Leu Pro Leu Asn Cys Ala Pro Cys Pro Arg Arg Ser Glu  
                             420                      425                      430  
 Pro Val Val Gln Cys Gln Tyr Pro Ser Gly Ala Glu Ala Gly  
                             435                      440                      445

<210> 2823

<211> 440

<212> PRT

<213> Homo sapiens

<400> 2823

Met Leu Phe Gly Met Val Thr Lys Phe Cys Ser Gly His Ala Pro His  
   1                      5                      10                      15  
 Phe Pro Met Lys Lys Val Leu Leu Leu Leu Trp Lys Thr Val Leu Cys  
                             20                      25                      30  
 Thr Leu Gly Gly Phe Glu Glu Leu Gln Ser Met Lys Ala Glu Lys Arg  
                             35                      40                      45  
 Ser Ile Leu Gly Leu Pro Pro Leu Pro Glu Asp Ser Ile Lys Val Ile  
                             50                      55                      60  
 Arg Asn Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile  
                             65                      70                      75                      80  
 Glu Gln Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys  
                             85                      90                      95  
 Gln Asp Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp  
                             100                      105                      110  
 Asp Ser Arg Glu Glu Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu  
                             115                      120                      125  
 Gly Glu Thr Phe Leu Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu  
                             130                      135                      140  
 Gln His Pro Gln Thr Asp Arg Leu Thr Cys Pro Lys Gly Leu Pro Trp  
                             145                      150                      155                      160  
 Ala Pro Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser

	165	170	175
Arg Ser Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val			
	180	185	190
Val Gly Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln			
	195	200	205
His Lys Tyr Thr Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu			
	210	215	220
Tyr Leu Arg Ser Pro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val			
225	230	235	240
Pro Ala Glu Thr Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr			
	245	250	255
Met Ile Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys			
	260	265	270
Ala Lys Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu			
	275	280	285
Met Pro Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn			
	290	295	300
Arg His Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu			
305	310	315	320
Leu Leu Lys His Phe Lys Leu Asn His Val Tyr Gln Val Pro Thr Gly			
	325	330	335
Leu Ser Leu Leu Ser Cys Gly Leu Gly Pro Arg Ala Leu Leu Leu Leu			
	340	345	350
Gln Pro Thr Arg Thr Gly Ala Leu Ala Phe Asp Pro Leu Glu Leu Cys			
	355	360	365
Met Asn Val Leu Arg His Gly Pro Ser Ala Lys Ala Phe His Pro Trp			
	370	375	380
Arg Lys Glu Gly Lys Val Pro Arg Ala Ala Pro Phe Phe Phe Phe Phe			
385	390	395	400
Phe Ser Cys Trp Leu Gln Phe Glu Tyr Met Ala Gln His Leu Val Phe			
	405	410	415
Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn Gln Asn Ile Met			
	420	425	430
Ser Tyr Ile Thr Ala Lys Asn Arg			
	435	440	

&lt;210&gt; 2824

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2824

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Met Gln Gln Met Thr Ser Asn Phe Ile Asp Gln Phe Gly Phe Asn Asp
 1             5             10            15
Glu Lys Phe Ala Asp Gln Asp Asp Ile Gly Asn Val Ser Phe Asp Arg
      20             25            30
Val Ser Asp Ile Asn Phe Thr Leu Asn Thr Asn Glu Ser Gly Asn Ile
      35             40            45
Ala Leu Phe Glu Ala Cys Cys Lys Glu Arg Ile Gln Gln Phe Asp Asp
      50             55            60
Gly Gly Ser Asp Glu Glu Asp Ile Trp Glu Glu Lys His Ile Ala Phe
      65             70            75            80
Thr Pro Glu Ser Gln Arg Arg Ser Ser Ser Gly Ser Thr Asp Ser Glu
      85             90            95
Glu Ser Thr Asp Ser Glu Glu Glu Asp Gly Ala Lys Gln Asp Leu Phe
      100            105            110
Glu Pro Ser Ser Ala Asn Thr Glu Asp Lys Met Glu Val Asp Leu Ser
      115            120            125
Glu Pro Pro Asn Trp Ser Ala Asn Phe Asp Val Pro Met Glu Thr Thr
      130            135            140
His Gly Ala Pro Leu Asp Ser Val Gly Ser Asp Val Trp Ser Thr Glu
      145            150            155            160
Glu Pro Met Pro Thr Lys Glu Thr Gly Trp Ala Ser Phe Ser Glu Phe
      165            170            175
Thr Ser Ser Leu Ser Thr Lys Asp Ser Leu Arg Ser Asn Ser Pro Val
      180            185            190
Glu Met Glu Thr Ser Thr Glu Pro Met Asp Pro Leu Thr Pro Ser Ala
      195            200            205
Ala Ala Leu Ala Val Gln Pro Glu Ala Ala Gly Ser Val Ala Met Glu
      210            215            220
Ala Ser Ser Asp Gly Glu Glu Asp Ala Glu Ser Thr Asp Lys Val Thr

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225                      230                      235                      240  
 Glu Thr Val Met Asn Gly Gly Met Lys Glu Thr Leu Ser Leu Thr Val  
                          245                      250                      255  
 Asp Ala Lys Thr Glu Thr Ala Val Phe Lys Arg Val Leu Lys Ser Tyr  
                          260                      265                      270  
 Arg Glu Glu Gly Lys Leu Ser Thr Ser Gln Asp Ala Ala Cys Lys Asp  
                          275                      280                      285  
 Ala Glu Glu Cys Pro Glu Thr Ala Glu Ala Lys Cys Ala Ala Pro Arg  
                          290                      295                      300  
 Pro Pro Ser Ser Ser Pro Glu Gln Arg Thr Gly Gln Pro Ser Ala Pro  
 305                      310                      315                      320  
 Gly Asp Thr Ser Val Asn Gly Pro Val  
                          325

<210> 2825

<211> 606

<212> PRT

<213> Homo sapiens

<400> 2825

Met Leu Lys Thr Phe Leu Phe Leu Glu Lys Tyr Phe Pro Cys Ile Lys  
   1                      5                      10                      15  
 Tyr Ser Ser Ala Cys Phe Pro Gly Thr Gly Leu Asp Val Tyr Asp Ile  
                          20                      25                      30  
 Lys Phe Ala Val Leu Leu His Pro Gln Thr Ala Leu His Phe Gly Pro  
                          35                      40                      45  
 Pro Pro Ser Leu Met Ala Phe Ser Ser Leu Cys Cys Arg Glu Leu Leu  
                          50                      55                      60  
 Glu Thr Thr Cys Arg Leu Ala Asn Thr Leu Lys Arg His Gly Val His  
   65                      70                      75                      80  
 Arg Gly Asp Arg Val Ala Ile Tyr Met Pro Val Ser Pro Leu Ala Val  
                          85                      90                      95  
 Ala Ala Met Leu Ala Cys Ala Arg Ile Gly Ala Val His Thr Val Ile  
                          100                      105                      110  
 Phe Ala Gly Phe Ser Ala Glu Ser Leu Ala Gly Arg Ile Asn Asp Ala

115	120	125
Lys Cys Lys Val Val Ile Thr Phe Asn Gln Gly Leu Arg Gly Gly Arg		
130	135	140
Val Val Glu Leu Lys Lys Ile Val Asp Glu Ala Val Lys His Cys Pro		
145	150	155
Thr Val Gln His Val Leu Val Ala His Arg Thr Asp Asn Lys Val His		
165	170	175
Met Gly Asp Leu Asp Val Pro Leu Glu Gln Glu Met Ala Lys Glu Asp		
180	185	190
Pro Val Cys Ala Pro Glu Ser Met Gly Ser Glu Asp Met Leu Phe Met		
195	200	205
Leu Tyr Thr Ser Gly Ser Thr Gly Met Pro Lys Gly Ile Val His Thr		
210	215	220
Gln Ala Gly Tyr Leu Leu Tyr Ala Ala Leu Thr His Lys Leu Val Phe		
225	230	235
Asp His Gln Pro Gly Asp Ile Phe Gly Cys Val Ala Asp Ile Gly Trp		
245	250	255
Ile Thr Gly His Ser Tyr Val Val Tyr Gly Pro Leu Cys Asn Gly Ala		
260	265	270
Thr Ser Val Leu Phe Glu Ser Thr Pro Val Tyr Pro Asn Ala Gly Arg		
275	280	285
Tyr Trp Glu Thr Val Glu Arg Leu Lys Ile Asn Gln Phe Tyr Gly Ala		
290	295	300
Pro Thr Ala Val Arg Leu Leu Leu Lys Tyr Gly Asp Ala Trp Val Lys		
305	310	315
Lys Tyr Asp Arg Ser Ser Leu Arg Thr Leu Gly Ser Val Gly Glu Pro		
325	330	335
Ile Asn Cys Glu Ala Trp Glu Trp Leu His Arg Val Val Gly Asp Ser		
340	345	350
Arg Cys Thr Leu Val Asp Thr Trp Trp Gln Thr Glu Thr Gly Gly Ile		
355	360	365
Cys Ile Ala Pro Arg Pro Ser Glu Glu Gly Ala Glu Ile Leu Pro Ala		
370	375	380
Met Ala Met Arg Pro Phe Phe Gly Ile Val Pro Val Leu Met Asp Glu		
385	390	395
		400



Lys Gly Ser Val Val Glu Gly Ser Asn Val Ser Gly Ala Leu Cys Ile  
                     405                    410                    415  
 Ser Gln Ala Trp Pro Gly Met Ala Arg Thr Ile Tyr Gly Asp His Gln  
                     420                    425                    430  
 Arg Phe Val Asp Ala Tyr Phe Lys Ala Tyr Pro Gly Tyr Tyr Phe Thr  
                     435                    440                    445  
 Gly Asp Gly Ala Tyr Arg Thr Glu Gly Gly Tyr Tyr Gln Ile Thr Gly  
                     450                    455                    460  
 Arg Met Asp Asp Val Ile Asn Ile Ser Gly His Arg Leu Gly Thr Ala  
 465                    470                    475                    480  
 Glu Ile Glu Asp Ala Ile Ala Asp His Pro Ala Val Pro Glu Ser Ala  
                     485                    490                    495  
 Val Ile Gly Tyr Pro His Asp Ile Lys Gly Glu Ala Ala Phe Ala Phe  
                     500                    505                    510  
 Ile Val Val Lys Asp Ser Ala Gly Asp Ser Asp Val Val Val Gln Glu  
                     515                    520                    525  
 Leu Lys Ser Met Val Ala Thr Lys Ile Ala Lys Tyr Ala Val Pro Asp  
                     530                    535                    540  
 Glu Ile Leu Val Val Lys Arg Leu Pro Lys Thr Arg Ser Gly Lys Val  
 545                    550                    555                    560  
 Met Arg Arg Leu Leu Arg Lys Ile Ile Thr Ser Glu Ala Gln Glu Leu  
                     565                    570                    575  
 Gly Asp Thr Thr Thr Leu Glu Asp Pro Ser Ile Ile Ala Glu Ile Leu  
                     580                    585                    590  
 Ser Val Tyr Gln Lys Cys Lys Asp Lys Gln Ala Ala Ala Lys  
                     595                    600                    605

<210> 2826

<211> 1088

<212> PRT

<213> Homo sapiens

<400> 2826

Met Pro Arg Thr Gly Phe Cys Cys Phe Thr Val Ser Leu Phe Val Trp  
                     1                    5                    10                    15

Met	Asp	Met	Ser	Met	Cys	Val	Ser	Leu	Ser	Arg	Cys	Val	Cys	Val	Tyr
		20						25					30		
Val	Ser	Ile	His	Pro	Pro	Gln	Cys	Leu	Asn	Ser	Leu	Leu	Val	Ile	Glu
		35					40					45			
Gly	Lys	Gly	Leu	Ile	Ser	Lys	Gln	Pro	Gly	Thr	Cys	Asp	Pro	Tyr	Val
	50					55				60					
Lys	Ile	Ser	Leu	Ile	Pro	Glu	Asp	Ser	Arg	Leu	Arg	His	Gln	Lys	Thr
	65				70				75					80	
Gln	Thr	Val	Pro	Asp	Cys	Arg	Asp	Pro	Ala	Phe	His	Glu	His	Phe	Phe
		85						90					95		
Phe	Pro	Val	Gln	Glu	Glu	Asp	Asp	Gln	Lys	Arg	Leu	Leu	Val	Thr	Val
	100							105					110		
Trp	Asn	Arg	Ala	Ser	Gln	Ser	Arg	Gln	Ser	Gly	Leu	Ile	Gly	Cys	Met
	115						120					125			
Ser	Phe	Gly	Val	Lys	Ser	Leu	Leu	Thr	Pro	Asp	Lys	Glu	Ile	Ser	Gly
	130					135				140					
Trp	Tyr	Tyr	Leu	Leu	Gly	Glu	His	Leu	Gly	Arg	Thr	Lys	His	Leu	Lys
	145				150				155					160	
Val	Ala	Arg	Arg	Arg	Leu	Arg	Pro	Leu	Arg	Asp	Pro	Leu	Leu	Arg	Met
		165						170					175		
Pro	Gly	Gly	Gly	Asp	Thr	Glu	Asn	Gly	Lys	Lys	Leu	Lys	Ile	Thr	Ile
	180							185					190		
Pro	Arg	Gly	Lys	Asp	Gly	Phe	Gly	Phe	Thr	Ile	Cys	Cys	Asp	Ser	Pro
	195					200						205			
Val	Arg	Val	Gln	Ala	Val	Asp	Ser	Gly	Gly	Pro	Ala	Glu	Arg	Ala	Gly
	210					215					220				
Leu	Gln	Gln	Leu	Asp	Thr	Val	Leu	Gln	Leu	Asn	Glu	Arg	Pro	Val	Glu
	225				230				235					240	
His	Trp	Lys	Cys	Val	Glu	Leu	Ala	His	Glu	Ile	Arg	Ser	Cys	Pro	Ser
		245						250					255		
Glu	Ile	Ile	Leu	Leu	Val	Trp	Arg	Met	Val	Pro	Gln	Val	Lys	Pro	Gly
	260							265					270		
Pro	Asp	Gly	Gly	Val	Leu	Arg	Arg	Ala	Ser	Cys	Lys	Ser	Thr	His	Asp
	275						280						285		
Leu	Gln	Ser	Pro	Pro	Asn	Lys	Arg	Glu	Lys	Asn	Cys	Thr	His	Gly	Val
	290					295						300			

Gln Ala Arg Pro Glu Gln Arg His Ser Cys His Leu Val Cys Asp Ser  
 305 310 315 320  
 Ser Asp Gly Leu Leu Leu Gly Gly Trp Glu Arg Tyr Thr Glu Val Ala  
 325 330 335  
 Lys Arg Gly Gly Gln His Thr Leu Pro Ala Leu Ser Arg Ala Thr Ala  
 340 345 350  
 Pro Thr Asp Pro Asn Tyr Ile Ile Leu Ala Pro Leu Asn Pro Gly Ser  
 355 360 365  
 Gln Leu Leu Arg Pro Val Tyr Gln Glu Tyr Thr Ile Pro Glu Glu Ser  
 370 375 380  
 Gly Ser Pro Ser Lys Gly Lys Ser Tyr Thr Gly Leu Gly Lys Lys Ser  
 385 390 395 400  
 Arg Leu Met Lys Thr Val Gln Thr Met Lys Gly His Gly Asn Tyr Gln  
 405 410 415  
 Asn Cys Pro Val Val Arg Pro His Ala Thr His Ser Ser Tyr Gly Thr  
 420 425 430  
 Tyr Val Thr Leu Ala Pro Lys Val Leu Val Phe Pro Val Phe Val Gln  
 435 440 445  
 Pro Leu Asp Leu Cys Asn Pro Ala Arg Thr Leu Leu Leu Ser Glu Gly  
 450 455 460  
 Leu Leu Leu Tyr Glu Gly Arg Asn Lys Ala Ala Glu Val Thr Leu Phe  
 465 470 475 480  
 Ala Tyr Ser Asp Leu Leu Leu Phe Thr Lys Glu Asp Glu Pro Gly Arg  
 485 490 495  
 Cys Asp Val Leu Arg Asn Pro Leu Tyr Leu Gln Ser Val Lys Leu Gln  
 500 505 510  
 Glu Gly Ser Ser Glu Asp Leu Lys Phe Cys Val Leu Tyr Leu Ala Glu  
 515 520 525  
 Lys Ala Glu Cys Leu Phe Thr Leu Glu Ala His Ser Gln Glu Gln Lys  
 530 535 540  
 Lys Arg Val Cys Trp Cys Leu Ser Glu Asn Ile Ala Lys Gln Gln Gln  
 545 550 555 560  
 Leu Ala Ala Ser Pro Pro Asp Ser Lys Met Phe Glu Thr Glu Ala Asp  
 565 570 575  
 Glu Lys Arg Glu Met Ala Leu Glu Glu Gly Lys Gly Pro Gly Ala Glu  
 580 585 590

Asp Ser Pro Pro Ser Lys Glu Pro Ser Pro Gly Gln Glu Leu Pro Pro  
 595 600 605  
 Gly Gln Asp Leu Pro Pro Asn Lys Asp Ser Pro Ser Gly Gln Glu Pro  
 610 615 620  
 Ala Pro Ser Gln Glu Pro Leu Ser Ser Lys Asp Ser Ala Thr Ser Glu  
 625 630 635 640  
 Gly Ser Pro Pro Gly Pro Asp Ala Pro Pro Ser Lys Asp Val Pro Pro  
 645 650 655  
 Cys Gln Glu Pro Pro Pro Ala Gln Asp Leu Ser Pro Cys Gln Asp Leu  
 660 665 670  
 Pro Ala Gly Gln Glu Pro Leu Pro His Gln Asp Pro Leu Leu Thr Lys  
 675 680 685  
 Asp Leu Pro Ala Ile Gln Glu Ser Pro Thr Arg Asp Leu Pro Pro Cys  
 690 695 700  
 Gln Asp Leu Pro Pro Ser Gln Val Ser Leu Pro Ala Lys Ala Leu Thr  
 705 710 715 720  
 Glu Asp Thr Met Ser Ser Gly Asp Leu Leu Ala Ala Thr Gly Asp Pro  
 725 730 735  
 Pro Ala Ala Pro Arg Pro Ala Phe Val Ile Pro Glu Val Arg Leu Asp  
 740 745 750  
 Ser Thr Tyr Ser Gln Lys Ala Gly Ala Glu Gln Gly Cys Ser Gly Asp  
 755 760 765  
 Glu Glu Asp Ala Glu Glu Ala Glu Glu Val Glu Glu Gly Glu Glu Gly  
 770 775 780  
 Glu Glu Asp Glu Asp Glu Asp Thr Ser Asp Asp Asn Tyr Gly Glu Arg  
 785 790 795 800  
 Ser Glu Ala Lys Arg Ser Ser Met Ile Glu Thr Gly Gln Gly Ala Glu  
 805 810 815  
 Gly Gly Leu Ser Leu Arg Val Gln Asn Ser Leu Arg Arg Arg Thr His  
 820 825 830  
 Ser Glu Gly Ser Leu Leu Gln Glu Pro Arg Gly Pro Cys Phe Ala Ser  
 835 840 845  
 Asp Thr Thr Leu His Cys Ser Asp Gly Glu Gly Ala Ala Ser Thr Trp  
 850 855 860  
 Gly Met Pro Ser Pro Ser Thr Leu Lys Lys Glu Leu Gly Arg Asn Gly  
 865 870 875 880

Gly	Ser	Met	His	His	Leu	Ser	Leu	Phe	Phe	Thr	Gly	His	Arg	Lys	Met
885				890				895							
Ser	Gly	Ala	Asp	Thr	Val	Gly	Asp	Asp	Asp	Glu	Ala	Ser	Arg	Lys	Arg
900				905				910							
Lys	Ser	Lys	Asn	Leu	Ala	Lys	Asp	Met	Lys	Asn	Lys	Leu	Gly	Ile	Phe
915				920				925							
Arg	Arg	Arg	Asn	Glu	Ser	Pro	Gly	Ala	Pro	Pro	Ala	Gly	Lys	Ala	Asp
930				935				940							
Lys	Met	Met	Lys	Ser	Phe	Lys	Pro	Thr	Ser	Glu	Glu	Ala	Leu	Lys	Trp
945				950				955				960			
Gly	Glu	Ser	Leu	Glu	Lys	Leu	Leu	Val	His	Lys	Tyr	Gly	Leu	Ala	Val
965				970				975							
Phe	Gln	Ala	Phe	Leu	Arg	Thr	Glu	Phe	Ser	Glu	Glu	Asn	Leu	Glu	Phe
980				985				990							
Trp	Leu	Ala	Cys	Glu	Asp	Phe	Lys	Lys	Val	Lys	Ser	Gln	Ser	Lys	Met
995				1000				1005							
Ala	Ser	Lys	Ala	Lys	Lys	Ile	Phe	Ala	Glu	Tyr	Ile	Ala	Ile	Gln	Ala
1010				1015				1020							
Cys	Lys	Glu	Val	Asn	Leu	Asp	Ser	Tyr	Thr	Arg	Glu	His	Thr	Lys	Asp
1025				1030				1035				1040			
Asn	Leu	Gln	Ser	Val	Thr	Arg	Gly	Cys	Phe	Asp	Leu	Ala	Gln	Lys	Arg
1045				1050				1055							
Ile	Phe	Gly	Leu	Met	Glu	Lys	Asp	Ser	Tyr	Pro	Arg	Phe	Leu	Arg	Ser
1060				1065				1070							
Asp	Leu	Tyr	Leu	Asp	Leu	Ile	Asn	Gln	Lys	Lys	Met	Ser	Pro	Pro	Leu
1075				1080				1085							

&lt;210&gt; 2827

&lt;211&gt; 1317

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2827

Met Glu Glu Glu Lys Asp Asp Ser Pro Gln Leu Thr Gly Ile Ala Val  
1 5 10 15

Gly Ala Leu Leu Ala Leu Ala Leu Val Gly Val Leu Ile Leu Phe Met  
                   20                                  25                                  30  
 Phe Arg Arg Leu Arg Gln Phe Arg Gln Ala Gln Pro Thr Pro Gln Tyr  
                   35                                  40                                  45  
 Arg Phe Arg Lys Arg Asp Lys Val Met Phe Tyr Gly Arg Lys Ile Met  
                   50                                  55                                  60  
 Arg Lys Val Thr Thr Leu Pro Asn Thr Leu Val Glu Asn Thr Ala Leu  
                   65                                  70                                  75                                  80  
 Pro Arg Gln Arg Ala Arg Lys Arg Thr Lys Val Leu Ser Leu Ala Lys  
                                   85                                  90                                  95  
 Arg Ile Leu Arg Phe Lys Lys Glu Tyr Pro Ala Leu Gln Pro Lys Glu  
                   100                                  105                                  110  
 Pro Pro Pro Ser Leu Leu Glu Ala Asp Leu Thr Glu Phe Asp Val Lys  
                   115                                  120                                  125  
 Asn Ser His Leu Pro Ser Glu Val Leu Tyr Met Leu Lys Asn Val Arg  
                   130                                  135                                  140  
 Val Leu Gly His Phe Glu Lys Pro Leu Phe Leu Glu Leu Cys Lys His  
                   145                                  150                                  155                                  160  
 Ile Val Phe Val Gln Leu Gln Glu Gly Glu His Val Phe Gln Pro Arg  
                                   165                                  170                                  175  
 Glu Pro Asp Pro Ser Ile Cys Val Val Gln Asp Gly Arg Leu Glu Val  
                   180                                  185                                  190  
 Cys Ile Gln Asp Thr Asp Gly Thr Glu Val Val Val Lys Glu Val Leu  
                   195                                  200                                  205  
 Ala Gly Asp Ser Val His Ser Leu Leu Ser Ile Leu Asp Ile Ile Thr  
                   210                                  215                                  220  
 Gly His Ala Ala Pro Tyr Lys Thr Val Ser Val Arg Ala Ala Ile Pro  
                   225                                  230                                  235                                  240  
 Ser Thr Ile Leu Arg Leu Pro Ala Ala Ala Phe His Gly Val Phe Glu  
                                   245                                  250                                  255  
 Lys Tyr Pro Glu Thr Leu Val Arg Val Val Gln Ile Ile Met Val Arg  
                   260                                  265                                  270  
 Leu Gln Arg Val Thr Phe Leu Ala Leu His Asn Tyr Leu Gly Leu Thr  
                   275                                  280                                  285  
 Thr Glu Leu Phe Asn Ala Glu Ser Gln Ala Ile Pro Leu Val Ser Val  
                   290                                  295                                  300

Ala Ser Val Ala Ala Gly Lys Ala Lys Lys Gln Val Phe Tyr Gly Glu  
 305 310 315 320  
 Glu Glu Arg Leu Lys Met Pro Pro Arg Leu Gln Glu Ser Cys Asp Ser  
 325 330 335  
 Asp His Gly Gly Gly Arg Pro Ala Ala Ala Gly Pro Leu Leu Lys Arg  
 340 345 350  
 Ser His Ser Val Pro Ala Pro Ser Ile Arg Lys Gln Ile Leu Glu Glu  
 355 360 365  
 Leu Glu Lys Pro Gly Ala Gly Asp Pro Asp Pro Ser Ala Pro Gln Gly  
 370 375 380  
 Gly Pro Gly Ser Ala Thr Ser Asp Leu Gly Met Ala Cys Asp Arg Ala  
 385 390 395 400  
 Arg Val Phe Leu His Ser Asp Glu Asp Pro Gly Ser Ser Val Ala Ser  
 405 410 415  
 Lys Ser Arg Lys Ser Val Met Val Ala Glu Ile Pro Ser Thr Val Ser  
 420 425 430  
 Gln His Ser Glu Ser His Thr Asp Glu Thr Leu Ala Ser Arg Lys Ser  
 435 440 445  
 Asp Ala Ile Phe Arg Ala Ala Lys Lys Asp Leu Leu Thr Leu Met Lys  
 450 455 460  
 Leu Glu Asp Ser Ser Leu Leu Asp Gly Arg Val Ala Leu Leu His Val  
 465 470 475 480  
 Pro Ala Gly Thr Val Val Ser Arg Gln Gly Asp Gln Asp Ala Ser Ile  
 485 490 495  
 Leu Phe Val Val Ser Gly Leu Leu His Val Tyr Gln Arg Lys Ile Gly  
 500 505 510  
 Ser Gln Glu Asp Thr Cys Leu Phe Leu Thr Arg Pro Gly Glu Met Val  
 515 520 525  
  
 Gly Gln Leu Ala Val Leu Thr Gly Glu Pro Leu Ile Phe Thr Val Lys  
 530 535 540  
 Ala Asn Arg Asp Cys Ser Phe Leu Ser Ile Ser Lys Ala His Phe Tyr  
 545 550 555 560  
 Glu Ile Met Arg Lys Gln Pro Thr Val Val Leu Gly Val Ala His Thr  
 565 570 575  
 Val Val Lys Arg Met Ser Ser Phe Val Arg Gln Ile Asp Phe Ala Leu

	580		585		590
Asp Trp Val Glu Val Glu Ala Gly Arg Ala Ile Tyr Arg Gln Gly Asp					
595		600		605	
Lys Ser Asp Cys Thr Tyr Ile Met Leu Ser Gly Arg Leu Arg Ser Val					
610		615		620	
Ile Arg Lys Asp Asp Gly Lys Lys Arg Leu Ala Gly Glu Tyr Gly Arg					
625		630		635	640
Gly Asp Leu Val Gly Val Val Glu Thr Leu Thr His Gln Ala Arg Ala					
	645		650		655
Thr Thr Val His Ala Val Arg Asp Ser Glu Leu Ala Lys Leu Pro Ala					
	660		665		670
Gly Ala Leu Thr Ser Ile Lys Arg Arg Tyr Pro Gln Val Val Thr Arg					
675		680		685	
Leu Ile His Leu Leu Gly Glu Lys Ile Leu Gly Ser Leu Gln Gln Gly					
690		695		700	
Pro Val Thr Gly His Gln Leu Gly Leu Pro Thr Glu Gly Ser Lys Trp					
705		710		715	720
Asp Leu Gly Asn Pro Ala Val Asn Leu Ser Thr Val Ala Val Met Pro					
	725		730		735
Val Ser Glu Glu Val Pro Leu Thr Ala Phe Ala Leu Glu Leu Glu His					
	740		745		750
Ala Leu Ser Ala Ile Gly Pro Thr Leu Leu Leu Thr Ser Asp Asn Ile					
755		760		765	
Lys Arg Arg Leu Gly Ser Ala Ala Leu Asp Ser Val His Glu Tyr Arg					
770		775		780	
Leu Ser Ser Trp Leu Gly Gln Gln Glu Asp Thr His Arg Ile Val Leu					
785		790		795	800
Tyr Gln Ala Asp Gly Thr Leu Thr Pro Trp Thr Gln Arg Cys Val Arg					
	805		810		815
Gln Ala Asp Cys Ile Leu Ile Val Gly Leu Gly Asp Gln Glu Pro Thr					
	820		825		830
Val Gly Glu Leu Glu Arg Met Leu Glu Ser Thr Ala Val Arg Ala Gln					
	835		840		845
Lys Gln Leu Ile Leu Leu His Arg Glu Glu Gly Pro Ala Pro Ala Arg					
850		855		860	
Thr Val Glu Trp Leu Asn Met Arg Ser Trp Cys Ser Gly His Leu His					



865	870	875	880
Leu Cys Cys Pro Arg Arg Val Phe Ser Arg Arg Ser Leu Pro Lys Leu			
	885	890	895
Val Glu Met Tyr Lys His Val Phe Gln Arg Pro Pro Asp Arg His Ser			
	900	905	910
Asp Phe Ser Arg Leu Ala Arg Val Leu Thr Gly Asn Ala Ile Ala Leu			
	915	920	925
Val Leu Gly Gly Gly Gly Ala Arg Gly Cys Ala Gln Val Gly Val Leu			
	930	935	940
Lys Ala Leu Ala Glu Cys Gly Ile Pro Val Asp Met Val Gly Gly Thr			
945	950	955	960
Ser Ile Gly Ala Phe Val Gly Ala Leu Tyr Ser Glu Glu Arg Asn Tyr			
	965	970	975
Ser Gln Met Arg Ile Arg Ala Lys Gln Trp Ala Glu Gly Met Thr Ser			
	980	985	990
Leu Met Lys Ala Ala Leu Asp Leu Thr Tyr Pro Ile Thr Ser Met Phe			
	995	1000	1005
Ser Gly Ala Gly Phe Asn Ser Ser Ile Phe Ser Val Phe Lys Asp Gln			
	1010	1015	1020
Gln Ile Glu Asp Leu Trp Ile Pro Tyr Phe Ala Ile Thr Thr Asp Ile			
1025	1030	1035	1040
Thr Ala Ser Ala Met Arg Val His Thr Asn Gly Ser Leu Trp Arg Tyr			
	1045	1050	1055
Val Arg Ala Ser Met Ser Leu Ser Gly Tyr Met Pro Pro Leu Cys Asp			
	1060	1065	1070
Pro Lys Asp Gly His Leu Leu Met Asp Gly Gly Tyr Ile Asn Asn Leu			
	1075	1080	1085
Pro Ala Asp Val Ala Arg Ser Met Gly Ala Lys Val Val Ile Ala Ile			
	1090	1095	1100
Asp Val Gly Ser Arg Asp Glu Thr Asp Leu Thr Asn Tyr Gly Asp Ala			
1105	1110	1115	1120
Leu Ser Gly Trp Trp Leu Leu Trp Lys Arg Trp Asn Pro Leu Ala Thr			
	1125	1130	1135
Lys Val Lys Val Leu Asn Met Ala Glu Ile Gln Thr Arg Leu Ala Tyr			
	1140	1145	1150
Val Cys Cys Val Arg Gln Leu Glu Val Val Lys Ser Ser Asp Tyr Cys			

1155                      1160                      1165  
 Glu Tyr Leu Arg Pro Pro Ile Asp Ser Tyr Ser Thr Leu Asp Phe Gly  
 1170                      1175                      1180  
 Lys Phe Asn Glu Ile Cys Glu Val Gly Tyr Gln His Gly Arg Thr Val  
 1185                      1190                      1195                      1200  
 Phe Asp Ile Trp Gly Arg Ser Gly Val Leu Glu Lys Met Leu Arg Asp  
 1205                      1210                      1215  
 Gln Gln Gly Pro Ser Lys Lys Pro Ala Ser Ala Val Leu Thr Cys Pro  
 1220                      1225                      1230  
 Asn Ala Ser Phe Thr Asp Leu Ala Glu Ile Val Ser Arg Ile Glu Pro  
 1235                      1240                      1245  
 Ala Lys Pro Ala Met Val Asp Asp Glu Ser Asp Tyr Gln Thr Glu Tyr  
 1250                      1255                      1260  
 Glu Glu Glu Leu Leu Asp Val Pro Arg Asp Ala Tyr Ala Asp Phe Gln  
 1265                      1270                      1275                      1280  
 Ser Thr Ser Ala Gln Gln Gly Ser Asp Leu Glu Asp Glu Ser Ser Leu  
 1285                      1290                      1295  
 Arg His Arg His Pro Ser Leu Ala Phe Pro Lys Leu Ser Glu Gly Ser  
 1300                      1305                      1310  
 Ser Asp Gln Asp Gly  
 1315

<210> 2828

<211> 202

<212> .PRT

<213> Homo sapiens

<400> 2828

Met Gly Gln Asn Met Ala His His Gly Ile Thr Gly His Ala Trp Pro  
 1                      5                      10                      15  
 Pro Met Val Ser Val Glu Glu Gly Ile Gln Arg Leu Arg Glu Ile Gly  
 20                      25                      30  
 Met Leu Glu Trp Ile Cys Leu Pro His Ala Ala Phe Val Pro Leu Leu  
 35                      40                      45  
 Glu Trp Ile Cys Pro Pro Tyr Ser Pro Leu Pro Pro Pro Leu Gln Pro

50                      55                      60  
 Ser Thr Thr Leu Leu Leu His Pro Ser Ser Ser Ser Ser Pro Pro Pro  
 65                      70                      75                      80  
 Ser Pro Leu Pro Leu Gln Leu Ser Thr Thr Leu Leu Leu Pro Leu Gln  
                     85                      90                      95  
 Phe Ser Phe Leu Cys Ser Pro Pro Pro Pro Pro Leu Pro Ala Leu Leu  
                     100                      105                      110  
 Pro Leu Pro Cys Asn Thr Pro Pro Pro Leu Ala Ala Phe Leu Pro Leu  
                     115                      120                      125  
 Leu Leu Pro Leu Gln Pro Ser Thr Leu Leu Pro Cys Ser Ser Thr Leu  
                     130                      135                      140  
 Phe Phe Val Ala Leu Leu Leu Ile Gln Pro Ser Thr Pro Pro Leu Ala  
 145                      150                      155                      160  
 Ala Leu Leu Pro Pro Leu Pro Pro Pro Val Cys Ser Leu Gln Leu Pro  
                     165                      170                      175  
 Pro Pro Pro Ile Leu Leu Ser Leu Ile Phe Pro Gln Asp Pro Ala Leu  
                     180                      185                      190  
 Met Pro Ala Pro Gln Ala Phe Ala Asp Pro  
                     195                      200

<210> 2829

<211> 343

<212> PRT

<213> Homo sapiens

<400> 2829

Met Thr Ser Thr Leu Phe Phe Ser Phe Leu Leu Trp Trp Leu Arg Thr  
   1                      5                      10                      15  
 Asp Asn Glu Trp Ser Leu Tyr Ser Pro Gly Leu Ser Trp Val Val Ala  
                     20                      25                      30  
 Ile Met Pro Leu Cys Ser Leu Glu Arg Ala Ala Gly Phe Val Glu Leu  
                     35                      40                      45  
 Arg Ile Pro Thr Phe Pro Asp Ile Ala Asn Leu Phe Ser Phe Ser Ser  
                     50                      55                      60  
 Thr Ser Pro Leu Glu Lys Ser Tyr Cys Ser Val Pro Glu Gly Leu Cys

65	70	75	80
His Lys Arg Val Gly Asp Ile Pro Arg Glu Phe Gln His Pro Phe Gly			
	85	90	95
Leu Ser Gln Ser Glu Met Ala Ala Val Lys Ala Ser Thr Ser Lys Ala			
	100	105	110
Thr Arg Pro Trp Tyr Ser His Pro Val Tyr Ala Arg Tyr Trp Gln His			
	115	120	125
Tyr His Gln Ala Met Ala Trp Met Gln Ser His His Asn Ala Tyr Arg			
	130	135	140
Lys Ala Val Glu Ser Cys Phe Asn Leu Pro Trp Tyr Leu Pro Ser Ala			
145	150	155	160
Leu Leu Pro Gln Ser Ser Tyr Asp Asn Glu Ala Ala Tyr Pro Gln Ser			
	165	170	175
Phe Tyr Asp His His Val Ala Trp Gln Asp Tyr Pro Cys Ser Ser Ser			
	180	185	190
His Phe Arg Arg Ser Gly Gln His Pro Arg Tyr Ser Ser Arg Ile Gln			
	195	200	205
Ala Ser Thr Lys Glu Asp Gln Ala Leu Ser Lys Glu Glu Glu Met Glu			
	210	215	220
Thr Glu Ser Asp Ala Glu Val Glu Cys Asp Leu Ser Asn Met Glu Ile			
225	230	235	240
Thr Glu Glu Leu Arg Gln Tyr Phe Ala Glu Thr Glu Arg His Arg Glu			
	245	250	255
Glu Arg Arg Arg Gln Gln Gln Leu Asp Ala Glu Arg Leu Asp Ser Tyr			
	260	265	270
Val Asn Ala Asp His Asp Leu Tyr Cys Asn Thr Arg Arg Ser Val Glu			
	275	280	285
Ala Pro Thr Glu Arg Pro Gly Glu Arg Arg Gln Ala Glu Met Lys Arg			
	290	295	300
Leu Tyr Gly Asp Ser Ala Ala Lys Ile Gln Ala Met Glu Ala Ala Val			
305	310	315	320
Gln Leu Ser Phe Asp Lys His Cys Asp Arg Lys Gln Pro Lys Tyr Trp			
	325	330	335
Pro Val Ile Pro Leu Lys Phe			
	340		

&lt;210&gt; 2830

&lt;211&gt; 748

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2830

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Met Lys His Ile Glu Val Ile Val Lys Ala Arg Gln Lys Val Lys Asn
  1             5             10             15
Thr Glu Phe Leu Gln Gln Ala Ala Leu Glu Glu Tyr Gly Pro Glu Leu
      20             25             30
His Val Ala Leu Arg Ser Arg Arg Asp Glu Leu His Tyr Leu Arg Lys
      35             40             45
Leu Thr Glu Leu Leu Phe Pro Tyr Ile Leu Pro Pro Lys Ala Thr Asp
      50             55             60
Cys Arg Ser Leu Thr Leu Leu Ile Arg Glu Ile Leu Ser Gly Ser Val
      65             70             75             80
Phe Leu Pro Ser Leu Asp Phe Leu Ala Asp Pro Asp Thr Val Asn His
      85             90             95
Leu Leu Ile Ile Phe Ile Asp Asp Ser Pro Pro Glu Lys Ala Thr Glu
      100            105            110
Pro Ala Ser Pro Leu Val Pro Phe Leu Gln Lys Phe Ala Glu Pro Arg
      115            120            125
Asn Lys Lys Pro Ser Val Leu Lys Leu Glu Leu Lys Gln Ile Arg Glu
      130            135            140
Gln Gln Asp Leu Leu Phe Arg Phe Met Asn Phe Leu Lys Gln Glu Gly
      145            150            155            160
Ala Val His Val Leu Gln Phe Cys Leu Thr Val Glu Glu Phe Asn Asp
      165            170            175
Arg Ile Leu Arg Pro Glu Leu Ser Asn Asp Glu Met Leu Ser Leu His
      180            185            190
Glu Glu Leu Gln Lys Ile Tyr Lys Thr Tyr Cys Leu Asp Glu Ser Ile
      195            200            205
Asp Lys Ile Arg Phe Asp Pro Phe Ile Val Glu Glu Ile Gln Arg Ile
      210            215            220
Ala Glu Gly Pro Tyr Ile Asp Val Val Lys Leu Gln Thr Met Arg Cys

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225                      230                      235                      240  
 Leu Phe Glu Ala Tyr Glu His Val Leu Ser Leu Leu Glu Asn Val Phe  
                          245                      250                      255  
 Thr Pro Met Phe Cys His Ser Asp Glu Tyr Phe Arg Gln Leu Leu Arg  
                          260                      265                      270  
 Gly Ala Glu Ser Pro Thr Arg Asn Ser Lys Leu Asn Arg Gly Ser Leu  
                          275                      280                      285  
 Ser Leu Asp Asp Phe Arg Asn Thr Gln Lys Arg Gly Glu Ser Phe Gly  
                          290                      295                      300  
 Ile Ser Arg Ile Gly Ser Lys Ile Lys Gly Val Phe Lys Ser Thr Thr  
 305                      310                      315                      320  
 Met Glu Gly Ala Met Leu Pro Asn Tyr Gly Val Ala Glu Gly Glu Asp  
                          325                      330                      335  
 Asp Phe Ile Glu Glu Gly Ile Val Val Met Gly Asp Asp Ser Pro Val  
                          340                      345                      350  
 Glu Ala Val Ser Thr Pro Asn Thr Pro Arg Asn Leu Ala Ala Trp Lys  
                          355                      360                      365  
 Ile Ser Ile Pro Tyr Val Asp Phe Phe Glu Asp Pro Ser Ser Glu Arg  
                          370                      375                      380  
 Lys Glu Lys Lys Glu Arg Ile Pro Val Phe Cys Ile Asp Val Glu Arg  
 385                      390                      395                      400  
 Asn Asp Arg Arg Ala Val Gly His Glu Pro Glu His Trp Ser Val Tyr  
                          405                      410                      415  
 Arg Arg Tyr Leu Glu Phe Tyr Val Leu Glu Ser Lys Leu Thr Glu Phe  
                          420                      425                      430  
 His Gly Ala Phe Pro Asp Ala Gln Leu Pro Ser Lys Arg Ile Ile Gly  
                          435                      440                      445  
 Pro Lys Asn Tyr Glu Phe Leu Lys Ser Lys Arg Glu Glu Phe Gln Glu  
                          450                      455                      460  
 Tyr Leu Gln Lys Leu Leu Gln His Pro Glu Leu Ser Asn Ser Gln Leu  
 465                      470                      475                      480  
 Leu Ala Asp Phe Leu Ser Pro Asn Gly Gly Glu Thr Gln Phe Leu Asp  
                          485                      490                      495  
 Lys Ile Leu Pro Asp Val Asn Leu Gly Lys Ile Ile Lys Ser Val Pro  
                          500                      505                      510  
 Gly Lys Leu Met Lys Glu Lys Gly Gln His Leu Glu Pro Phe Ile Met

515	520	525
Asn Phe Ile Asn Ser Cys Glu Ser Pro Lys Pro Lys Pro Ser Arg Pro		
530	535	540
Glu Leu Thr Ile Leu Ser Pro Thr Ser Glu Asn Asn Lys Lys Leu Phe		
545	550	555
Asn Asp Leu Phe Lys Asn Asn Ala Asn Arg Ala Glu Asn Thr Glu Arg		
	565	570
Lys Gln Asn Gln Asn Tyr Phe Met Glu Val Met Thr Val Glu Gly Val		
	580	585
Tyr Asp Tyr Leu Met Tyr Val Gly Arg Val Val Phe Gln Val Pro Asp		
595	600	605
Trp Leu His His Leu Leu Met Gly Thr Arg Ile Leu Phe Lys Asn Thr		
610	615	620
Leu Glu Met Tyr Thr Asp Tyr Tyr Leu Gln Cys Lys Leu Glu Gln Leu		
625	630	635
Phe Gln Glu His Arg Leu Val Ser Leu Ile Thr Leu Leu Arg Asp Ala		
	645	650
Ile Phe Cys Glu Asn Thr Glu Pro Arg Ser Leu Gln Asp Lys Gln Lys		
	660	665
Gly Ala Lys Gln Thr Phe Glu Glu Met Met Asn Tyr Ile Pro Asp Leu		
675	680	685
Leu Val Lys Cys Ile Gly Glu Glu Thr Lys Tyr Glu Ser Ile Arg Leu		
690	695	700
Leu Phe Asp Gly Leu Gln Gln Pro Val Leu Asn Lys Gln Leu Thr Tyr		
705	710	715
Val Leu Leu Asp Ile Val Ile Gln Glu Leu Phe Pro Glu Leu Asn Lys		
	725	730
Val Gln Lys Glu Val Thr Ser Val Thr Ser Trp Met		
740	745	

&lt;210&gt; 2831

&lt;211&gt; 316

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2831

Met Ala His Ser Val Ser Ala Asp Gly Lys Ser Pro Val Val Leu Ser  
 1 5 10 15  
 His Val Ser Leu Ser Ser Gln Gly Arg Ile Ala Cys Ala Asn Val Leu  
 20 25 30  
 Ser Asp Leu Tyr Ala Met Gly Val Thr Glu Cys Asp Asn Met Leu Met  
 35 40 45  
 Leu Leu Gly Val Ser Asn Lys Met Thr Asp Arg Glu Arg Asp Lys Val  
 50 55 60  
 Met Pro Leu Ile Ile Gln Gly Phe Lys Asp Ala Ala Glu Glu Ala Gly  
 65 70 75 80  
 Thr Ser Val Thr Gly Gly Gln Thr Val Leu Asn Pro Trp Ile Val Leu  
 85 90 95  
 Gly Gly Val Ala Thr Thr Val Cys Gln Pro Asn Glu Phe Ile Met Pro  
 100 105 110  
 Asp Asn Ala Val Pro Gly Asp Val Leu Val Leu Thr Lys Pro Leu Gly  
 115 120 125  
 Thr Gln Val Ala Val Ala Val His Gln Trp Leu Asp Ile Pro Glu Lys  
 130 135 140  
 Trp Asn Lys Ile Lys Leu Val Val Thr Gln Glu Asp Val Glu Leu Ala  
 145 150 155 160  
 Tyr Gln Glu Ala Met Met Asn Met Ala Arg Leu Asn Arg Thr Ala Ala  
 165 170 175  
 Gly Leu Met His Thr Phe Asn Ala His Ala Ala Thr Asp Ile Thr Gly  
 180 185 190  
 Phe Gly Ile Leu Gly His Ala Gln Asn Leu Ala Lys Gln Gln Arg Asn  
 195 200 205  
 Glu Val Ser Phe Val Ile His Asn Leu Pro Val Leu Ala Lys Met Ala  
 210 215 220  
 Ala Val Ser Lys Ala Cys Gly Asn Met Phe Gly Leu Met His Gly Thr  
 225 230 235 240  
 Cys Pro Glu Thr Ser Gly Gly Leu Leu Ile Cys Leu Ser Arg Glu Gln  
 245 250 255  
 Ala Ala Arg Phe Cys Ala Glu Ile Lys Ser Pro Lys Tyr Gly Glu Gly



260 265 270  
 His Gln Ala Trp Ile Ile Gly Ile Val Glu Lys Gly Asn Arg Thr Ala  
 275 280 285  
 Arg Ile Ile Asp Lys Pro Arg Ile Ile Glu Val Ala Pro Gln Val Ala  
 290 295 300  
 Thr Gln Asn Val Asn Pro Thr Pro Gly Ala Thr Ser  
 305 310 315

<210> 2832

<211> 651

<212> PRT

<213> Homo sapiens

<400> 2832

Met Leu Asp Arg Tyr Glu Tyr Gln Met Ser Ile Ser Ile Val Met Asn  
 1 5 10 15  
 Ser Val Glu Pro Ser His Lys Ser Thr Gln Arg Pro Pro Pro Pro Gln  
 20 25 30  
 Gly Arg Gln Arg Glu Arg Val Leu Lys Lys Thr Gly His Arg Leu Ser  
 35 40 45  
 Lys Thr Lys Gln Lys Arg Asn Arg Lys Arg Asn Lys Lys Gln Asn Ser  
 50 55 60  
 Gln Asn Arg Ile Met Glu Glu Asn Ser Leu Glu Phe Leu Ser Asp Leu  
 65 70 75 80  
 Thr Pro Gly Asp Gln Asp Pro Ser Gln Ser Glu Glu Glu Asp Ile Glu  
 85 90 95  
 Lys Thr Arg Arg Glu Ser Glu Tyr Pro Phe Ile Asp Gly Leu Gln Asn  
 100 105 110  
 Glu Val Gly Asp Phe Val Thr Gly Tyr Lys Glu Lys Arg Trp Lys Asn  
 115 120 125  
 Lys Asp Pro Lys Asp Ser Phe Gln Asn Val Met Ser Ile Val Glu Leu  
 130 135 140  
 Asp Asn Thr Pro Lys Asn Tyr Leu Ser Lys Glu Gly Asp Asn Leu Phe  
 145 150 155 160  
 Val Ser Leu Leu Leu Arg Pro Asn Glu Ile Ser Val Thr Cys Pro Ile

	165		170		175
Leu Thr Gln Asn Leu Ser Cys Val Thr Thr Asp Asp Cys Ser Gly Met					
	180		185		190
Lys Val Glu Lys His Ile Arg Asn Arg His Thr Ile Ala Leu Asp Thr					
	195		200		205
Gln Asp Leu Ser Ala Glu Thr Ser Cys Leu Phe Met Lys Lys Arg Glu					
	210		215		220
Ile Val Asp Lys Asn Leu Ser His Glu Pro Ile Leu Cys His Gln His					
225		230		235	240
Gly Ile Arg Met Ser Asp Lys Val Leu Arg Glu Glu Gln Val Tyr Thr					
	245		250		255
Thr Lys Ile Asn His Trp Ala Phe Phe Thr Thr Asn Leu Ser Asp Glu					
	260		265		270
Asp Leu Gln Leu Gly Ser Asp Arg Gln Pro Tyr Phe Gly Ser Trp Pro					
	275		280		285
Ala Gly Pro His Lys Phe Ile Cys Glu Gln Arg Pro Lys Lys Asp Arg					
	290		295		300
Ala Cys Lys Leu Ala Gly Pro Asp Ser Arg Gly Gln Trp Ile Gln Met					
305		310		315	320
Ile Phe Thr Ser Val Ala Ala Ser Glu Pro Gly Asn Asn Pro Glu Ile					
	325		330		335
Leu Thr Asp Lys Leu Leu Ile Gly Asn Glu Asp Phe Ser Pro Pro Pro					
	340		345		350
Glu Thr Met Asp Ser Phe Ile Glu Thr Asn Leu Phe Arg Ser Cys Leu					
	355		360		365
Pro Gln Pro Asp Ile Pro Lys Asn Ala Leu Glu Ser Thr Lys Asn Lys					
	370		375		380
Lys Arg Arg Lys Lys Arg Ile Phe Asn Leu Val Pro Asn Phe Asp Leu					
385		390		395	400
Leu Gly Gln Ser Arg Ile Gly Val Lys Glu Arg Glu Lys Cys Asp Leu					
	405		410		415
Leu Thr Lys Asn His Gly Leu Lys Ile Thr Leu Gly Glu Glu Lys Asp					
	420		425		430
Arg Ile Ser Glu Arg Asn Ser Glu Glu Glu Asn Lys Gln Lys Leu Met					
	435		440		445
Thr Phe Asp His His Pro Leu Trp Phe Tyr Leu Asp Ile Ile Lys Ala					

450                      455                      460  
 Thr Pro Leu Asn Ile Asp Gly Gln Arg Tyr Ser His Cys Leu Ser Phe  
 465                      470                      475                      480  
 Asn Arg Leu Arg Cys Ser Ala Ser Leu Tyr Lys Asn Tyr Ile Pro Ser  
                     485                      490                      495  
 Phe Val Leu His Asn Leu Ser Ser Ile Trp Lys Pro Ser Phe Thr Asn  
                     500                      505                      510  
 Lys Lys Leu Phe Leu Thr Phe Glu Ser Gln Thr Arg Val Gly Asn Lys  
                     515                      520                      525  
 Leu Asn Asp Ala Gly Phe Ile Ser Pro Glu Ile Leu His Ser His Pro  
                     530                      535                      540  
 Asp Thr Ser Cys Ser Leu Gly Val Thr Ser Asp Phe His Phe Leu Asn  
 545                      550                      555                      560  
 Glu Arg Phe Asp Arg Lys Leu Lys Arg Trp Glu Glu Pro Lys Glu Leu  
                     565                      570                      575  
 Pro Ala Glu Asp Ser Gln Asp Leu Thr Ser Thr Asp Tyr Arg Ser Leu  
                     580                      585                      590  
 Glu Leu Pro Leu Ser Gln Gly Phe Ala Phe Gln Leu Val Lys Leu Phe  
                     595                      600                      605  
 Gly Ser Pro Gly Val Pro Met Glu Ser Leu Leu Pro Asp Asp Tyr Val  
                     610                      615                      620  
 Val Pro Leu Asp Trp Lys Thr Leu Lys Met Ile Tyr Leu Gln Trp Lys  
 625                      630                      635                      640  
 Met Ser Val Glu Lys Arg Gln Lys Lys Ile Gly  
                     645                      650

<210> 2833

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2833

Met Ala Ala Pro Gly Pro Leu Glu Asn Gln Val Val Leu Ala Leu Lys  
   1                      5                      10                      15  
 Ala Phe Tyr Asn Leu Phe Pro Ser Leu Leu Leu Thr Ala Thr Ala Pro

&lt;210&gt; 2834

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2834

Met	Val	Phe	Phe	Cys	Pro	Val	Pro	Leu	Phe	Cys	Pro	Gly	Leu	Ala	Pro
1				5					10					15	
Arg	Asp	Pro	Arg	Pro	Cys	Ser	Phe	Leu	Pro	Pro	Val	Thr	Phe	Gly	Asn
			20					25					30		
Gly	Gln	Arg	Pro	Ser	Ala	Val	Leu	Gly	Gly	Pro	His	Gly	His	Val	Gly
		35				40						45			
Asp	Pro	Ala	His	Arg	Ala	Ala	Ala	Leu	Gln	Gln	Val	Trp	Arg	Pro	Glu
	50					55					60				
Ile	Pro	Arg	His	Leu	Gln	Gly	Asn	Pro	Pro	Leu	Leu	Thr	Pro	Pro	Cys
65				70					75					80	
Pro	Gln	Val	Leu	Leu	His	Pro	Met	Val	Arg	Asp	Arg	Gln	Gly	Arg	Lys
			85					90					95		
Met	Ser	Lys	Ser	Leu	Gly	Asn	Val	Leu	Asp	Pro	Arg	Asp	Ile	Ile	Ser
		100				105						110			

Gly Val Glu Met Gln Leu Leu Gln Glu Lys Leu Arg Ser Gly Asn Leu  
 115 120 125  
 Asp Pro Ala Glu Leu Ala Ile Val Ala Ala Ala Gln Lys Lys Asp Phe  
 130 135 140  
 Pro His Gly Ile Pro Glu Cys Gly Thr Asp Ala Leu Arg Phe Thr Leu  
 145 150 155 160  
 Cys Ser His Gly Val Gln Ala Gly Asp Leu His Leu Ser Val Ser Glu  
 165 170 175  
 Val Gln Ser Cys Arg His Phe Cys Asn Lys Ile Trp Asn Ala Leu Arg  
 180 185 190  
 Phe Ile Leu Asn Ala Leu Gly Glu Lys Phe Val Pro Gln Pro Ala Glu  
 195 200 205  
 Glu Leu Ser Pro Ser Ser Pro Met Asp Ala Trp Ile Leu Ser Arg Leu  
 210 215 220  
 Ala Leu Ala Ala Gln Glu Cys Glu Arg Gly Phe Leu Thr Arg Glu Leu  
 225 230 235 240  
 Ser Leu Val Thr His Ala Leu His His Phe Trp Leu His Asn Leu Cys  
 245 250 255  
 Asp Val Tyr Leu Glu Ala Val Lys Pro Val Leu Trp His Ser Pro Arg  
 260 265 270  
 Pro Leu Gly Pro Pro Gln Val Leu Phe Ser Cys Ala Asp Leu Gly Leu  
 275 280 285  
 Arg Leu Leu Ala Pro Leu Met Pro Phe Leu Ala Glu Glu Leu Trp Gln  
 290 295 300  
 Arg Leu Pro Pro Arg Pro Gly Cys Pro Pro Ala Pro Ser Ile Ser Val  
 305 310 315 320  
 Ala Pro Tyr Pro Ser Ala Cys Ser Leu Glu His Trp Arg Gln Pro Glu  
 325 330 335  
 Leu Glu Arg Arg Phe Ser Arg Val Gln Glu Val Val Gln Val Leu Arg  
 340 345 350  
 Ala Leu Arg Ala Thr Tyr Gln Leu Thr Lys Ala Arg Pro Arg Val Leu  
 355 360 365  
 Leu Gln Ser Ser Glu Pro Gly Asp Gln Gly Leu Phe Glu Ala Phe Leu  
 370 375 380  
 Glu Pro Leu Gly Thr Leu Gly Tyr Cys Gly Ala Val Gly Leu Leu Pro  
 385 390 395 400

Pro Gly Thr Ala Ala Pro Ser Gly Trp Ala Gln Ala Pro Leu Ser Asp  
                     405                    410                    415  
 Thr Ala Gln Val Tyr Met Glu Leu Gln Gly Leu Val Asp Pro Gln Ile  
                     420                    425                    430  
 Gln Leu Pro Leu Leu Ala Ala Arg Arg Tyr Lys Leu Gln Lys Gln Leu  
                     435                    440                    445  
 Asp Ser Leu Thr Ala Arg Thr Pro Ser Glu Gly Glu Ala Gly Thr Gln  
                     450                    455                    460  
 Arg Gln Gln Lys Leu Ser Ser Leu Gln Leu Glu Leu Ser Lys Leu Asp  
 465                    470                    475                    480  
 Lys Ala Ala Ser His Leu Arg Gln Leu Met Asp Glu Pro Pro Ala Pro  
                     485                    490                    495  
 Gly Ser Pro Glu Leu  
                     500

<210> 2835

<211> 304

<212> PRT

<213> Homo sapiens

<400> 2835

Met Ile Phe Leu Thr Ile Ala Leu Ser Phe Ser Gly Ala Ser Tyr His  
   1                    5                    10                    15  
 Lys Tyr Pro Asn Ile Phe Ser Asn Val Gln Phe Ile Leu Lys Ala Ser  
                     20                    25                    30  
 Glu Ile Ile Gly Lys Arg Glu Leu Arg Ser Glu Ser Ile Phe Arg Pro  
                     35                    40                    45  
 Val Glu Asp Lys Lys Arg Tyr Glu Asn Thr Asp Ser Asp Met Gly Gly  
                     50                    55                    60  
 Tyr Glu Ile Asn His Leu Leu Trp His Cys Val Ala Ala Trp Ser Cys  
   65                    70                    75                    80  
 Val Gln Asn Asn Ser Pro Gln Leu Asn Asn Val Leu Glu His Leu Ile  
                     85                    90                    95  
 Phe His Lys Thr Gln Leu Gln Lys Lys Cys Trp Leu Asp Ser Val Leu  
                     100                    105                    110

Ala	Leu	Leu	Val	Leu	Gly	Glu	Ala	Ala	Lys	Leu	Asn	Met	Ala	Cys	Leu
115				120				125							
Lys	Ala	Leu	Met	Asp	Val	Val	Arg	Asp	Phe	Val	Ser	Ser	Ile	Met	Ser
130				135				140							
Val	Gln	Asn	Gln	Glu	Glu	Ser	Cys	Lys	Val	Asp	Gly	Phe	Ser	Trp	Ala
145				150				155				160			
Trp	Asn	Val	Val	Tyr	Ile	Tyr	Thr	Val	Ile	Leu	Ala	Glu	Ile	Cys	Leu
165				170				175							
Tyr	Ala	Ala	Thr	Ser	Asp	Leu	Arg	Lys	Thr	Ala	Leu	Ile	Gly	Phe	Cys
180				185				190							
His	Cys	Lys	Ser	Ser	Gln	Lys	Asn	Ile	Leu	Tyr	Leu	Asp	Lys	Ser	Val
195				200				205							
Pro	Pro	Glu	Leu	Lys	Glu	Thr	Ser	Ile	Leu	Ser	Leu	Leu	Glu	Tyr	Phe
210				215				220							
Ser	Ser	Lys	Met	Ser	Glu	Asn	Cys	Asp	Gln	Val	Val	Trp	Thr	Gly	Tyr
225				230				235				240			
Tyr	Gly	Leu	Val	Tyr	Asn	Leu	Val	Lys	Ile	Ser	Trp	Glu	Leu	Gln	Gly
245				250				255							
Asp	Glu	Glu	Gln	Asp	Gly	Leu	Arg	Asn	Met	Ile	Trp	Gln	Thr	Leu	Gln
260				265				270							
Lys	Thr	Lys	Asp	Tyr	Glu	Glu	Asp	Val	Arg	Ile	Gln	Asn	Ala	Ile	Asn
275				280				285							
Ile	Ala	Gln	Glu	Gly	Lys	Pro	Thr	Arg	Thr	Leu	Asp	Lys	Leu	Phe	Leu
290				295				300							

&lt;210&gt; 2836

&lt;211&gt; 259

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2836

Met Ala Leu Arg Arg Pro Pro Arg Leu Arg Leu Cys Ala Arg Leu Pro  
1 5 10 15  
Asp Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Leu Ile Gly Ala Val  
20 25 30

Asn Leu Lys Ser Ser Asn Arg Thr Pro Val Val Gln Glu Phe Glu Ser  
           35                          40                          45  
 Val Glu Leu Ser Cys Ile Ile Thr Asp Ser Gln Thr Ser Asp Pro Arg  
           50                          55                          60  
 Ile Glu Trp Lys Lys Ile Gln Asp Glu Gln Thr Thr Tyr Val Phe Phe  
           65                          70                          75                          80  
 Asp Asn Lys Ile Gln Val Lys Pro Val Thr Pro Val Cys Arg Val Pro  
                           85                          90                          95  
 Lys Ala Val Pro Val Gly Lys Met Ala Thr Leu His Cys Gln Glu Ser  
                           100                          105                          110  
 Glu Gly His Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn Asp Val Pro  
                           115                          120                          125  
 Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Arg Asn Ser Ser Phe  
                           130                          135                          140  
 His Leu Asn Ser Glu Thr Gly Thr Leu Val Phe Thr Ala Val His Lys  
                           145                          150                          155                          160  
 Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp Ala Gly Ser  
                           165                          170                          175  
 Ala Arg Cys Glu Glu Gln Glu Met Glu Val Tyr Asp Leu Asn Ile Gly  
                           180                          185                          190  
 Gly Ile Ile Gly Gly Val Leu Val Val Leu Ala Val Leu Ala Leu Ile  
                           195                          200                          205  
 Thr Leu Gly Ile Cys Cys Ala Tyr Arg Arg Gly Tyr Phe Ile Asn Asn  
                           210                          215                          220  
 Lys Gln Asp Gly Glu Ser Tyr Lys Asn Pro Gly Lys Pro Asp Gly Val  
                           225                          230                          235                          240  
 Asn Tyr Ile Arg Thr Asp Glu Glu Gly Asp Phe Arg His Lys Ser Ser  
                           245                          250                          255  
 Phe Val Ile

<210> 2837

<211> 374

<212> PRT

<213> Homo sapiens



&lt;400&gt; 2837

Met Met Asn Gly Gly Met Ser Leu Val Ala Phe Val Leu Leu Asn Glu  
 1 5 10 15  
 Cys Val Gly Thr Ala Tyr Trp Ala Leu Ala Gly Ser Ile Gly Gly Leu  
 20 25 30  
 Phe Phe Ala Val Gly Ile Ala Gln Tyr Ala Leu Leu Gly Tyr Phe Ile  
 35 40 45  
 Arg Ser Trp Arg Thr Leu Ala Ile Leu Val Asn Leu Gln Gly Thr Val  
 50 55 60  
 Val Phe Leu Leu Ser Leu Phe Ile Pro Glu Ser Pro Arg Trp Leu Tyr  
 65 70 75 80  
 Ser Gln Gly Arg Leu Ser Glu Ala Glu Glu Ala Leu Tyr Leu Ile Ala  
 85 90 95  
 Lys Arg Asn Arg Lys Leu Lys Cys Thr Phe Ser Leu Thr His Pro Ala  
 100 105 110  
 Asn Arg Ser Cys Arg Glu Thr Gly Ser Phe Leu Asp Leu Phe Arg Tyr  
 115 120 125  
 Arg Val Leu Leu Gly His Thr Leu Ile Leu Met Phe Ile Trp Phe Val  
 130 135 140  
 Cys Ser Leu Val Tyr Tyr Gly Leu Thr Leu Ser Ala Gly Asp Leu Gly  
 145 150 155 160  
 Gly Ser Ile Tyr Ala Asn Leu Ala Leu Ser Gly Leu Ile Glu Ile Pro  
 165 170 175  
 Ser Tyr Pro Leu Cys Ile Tyr Leu Ile Asn Gln Lys Trp Phe Gly Arg  
 180 185 190  
 Lys Arg Thr Leu Ser Ala Phe Leu Cys Leu Gly Gly Leu Ala Cys Leu  
 195 200 205  
 Ile Val Met Phe Leu Pro Glu Lys Lys Asp Thr Gly Val Phe Ala Val  
 210 215 220  
 Val Asn Ser His Ser Leu Ser Leu Leu Gly Lys Leu Thr Ile Ser Ala  
 225 230 235 240  
 Ala Phe Asn Ile Val Tyr Ile Tyr Thr Ser Glu Leu Tyr Pro Thr Val  
 245 250 255  
 Ile Arg Asn Val Gly Leu Gly Thr Cys Ser Met Phe Ser Arg Val Gly  
 260 265 270

Gly Ile Ile Ala Pro Phe Ile Pro Ser Leu Lys Tyr Val Gln Trp Ser  
 275 280 285  
 Leu Pro Phe Ile Val Phe Gly Ala Thr Gly Leu Thr Ser Gly Leu Leu  
 290 295 300  
 Ser Leu Leu Leu Pro Glu Thr Leu Asn Ser Pro Leu Leu Glu Thr Phe  
 305 310 315 320  
 Ser Asp Leu Gln Val Tyr Ser Tyr Arg Arg Leu Gly Glu Glu Ala Leu  
 325 330 335  
 Ser Leu Gln Ala Leu Asp Pro Gln Gln Cys Val Asp Lys Glu Ser Ser  
 340 345 350  
 Leu Gly Ser Glu Ser Glu Glu Glu Glu Glu Phe Tyr Asp Ala Asp Glu  
 355 360 365  
 Glu Thr Gln Met Ile Lys  
 370

<210> 2838

<211> 383

<212> PRT

<213> Homo sapiens

<400> 2838

Met Asn Ala Gly Pro Ser Trp Asn Lys Val Gln His Ser Lys Asn Ser  
 1 5 10 15  
 Ser Gly Lys Arg Gln Ser Lys Ser Gln Val Pro His Ala Ser Ser Gln  
 20 25 30  
 Pro Arg Ser Ser Leu Thr Ala Val Thr Gln Pro Thr Glu Glu Lys Leu  
 35 40 45  
 Lys Glu Ser Ile Ser Pro Glu Ala Arg Arg Lys Arg Asn Pro Leu Gly  
 50 55 60  
 Ser Arg Cys Gln Gly Ala Ser Gly Asn Lys Leu Phe Leu Asp Phe Gln  
 65 70 75 80  
 Ser Met Lys Ile Ile Lys Glu Asn Ala Asp Glu Asp Ser Ala Ser Asp  
 85 90 95  
 Leu Ser Asp Ser Glu Arg Ile Pro Ile Pro Pro Ser Pro Leu Thr Pro  
 100 105 110

Pro Asp Leu Asn Leu Arg Ala Glu Glu Ile Asp Pro Val Tyr Phe Asp  
 115 120 125  
 Leu His Pro Gly Gln Gly His Thr Lys Pro Glu Tyr Tyr Tyr Pro Asn  
 130 135 140  
 Phe Leu Pro Ser Pro Phe Ser Ser Trp Asp Leu Arg Asp Met Ala Leu  
 145 150 155 160  
 Leu Leu Asn Ala Glu Asn Lys Thr Glu Ala Val Pro Arg Val Gly Gly  
 165 170 175  
  
 Leu Leu Gly Lys Tyr Ile Asp Arg Leu Ile Gln Leu Glu Trp Leu Gln  
 180 185 190  
 Val Gln Thr Val Gln Cys Glu Lys Ala Lys Gly Gly Lys Ala Arg Pro  
 195 200 205  
 Pro Thr Ala Pro Gly Thr Ser Gly Ala Leu Lys Ser Pro Gly Arg Ser  
 210 215 220  
 Lys Leu Ile Ala Ser Ala Leu Ser Lys Pro Leu Pro His Gln Glu Gly  
 225 230 235 240  
 Ala Ser Lys Ser Gly Pro Ser Arg Lys Lys Ala Phe His His Glu Glu  
 245 250 255  
 Ile His Pro Ser His Tyr Ala Phe Glu Thr Ser Pro Arg Pro Ile Asp  
 260 265 270  
 Val Leu Gly Gly Thr Arg Phe Cys Ser Gln Arg Gln Thr Leu Glu Met  
 275 280 285  
 Arg Thr Glu Glu Lys Lys Lys Lys Ser Ser Lys Ser Thr Lys Leu Gln  
 290 295 300  
 Arg Trp Asp Leu Ser Gly Ser Gly Ser Ser Ser Lys Val Glu Thr Ser  
 305 310 315 320  
 Gly His Ile Arg Val Pro Lys Gln Ala Ala Val Ile Leu Asp Ser Ala  
 325 330 335  
 Asp Ser Cys Lys Ala Ser Lys Thr Gln Ala His Ala His Pro Arg Lys  
 340 345 350  
 Lys Gly Lys Ala Glu Ser Cys Gly His Ala Thr Val Ser Ser Glu Lys  
 355 360 365  
 Lys Leu Lys Thr Asn Gly Val Lys Gln Asn Thr Tyr Lys Leu Lys  
 370 375 380

<210> 2839

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2839

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Met Lys Gly Cys Cys Arg Pro Val Gly Arg Thr Ser Ala Pro Pro Arg
 1             5             10             15
Pro Gly Pro Arg Pro Ser Ser Ser Gly Leu Ser Cys Cys Pro Cys Leu
      20             25             30
Arg Gly Pro Thr Thr Arg Arg Thr Gly Ser Cys Ala Gln Pro Arg Ser
      35             40             45
Pro Pro Ser Phe Arg Gly Pro Gly Leu Asp Pro Ala Glu Pro Gln Met
      50             55             60
Cys Glu Gln Glu Arg Gln Ser Pro Asp Ala Arg Pro Ala Gly Ser Gly
      65             70             75             80
Arg Glu Met Val Pro Ser Phe Cys Pro Glu Gly Glu Pro Cys Thr Glu
      85             90             95
Gly Pro Leu Arg Ala Trp His Cys Leu Pro Asn Ser Pro Ser Ala Ser
      100            105            110
Leu Pro Gly Trp Ala Met Arg Gly Leu Asp Arg Ile Ala Leu Val Pro
      115            120            125
Ser Trp Gln Trp Val Trp Val Gly Ser Trp Gly Gln Gly Phe Pro Glu
      130            135            140
Cys Arg Gln Leu Gly Leu His Leu Pro Arg Pro Pro Thr Gln Ala Gln
      145            150            155            160
Ile Ser Arg Ala

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<210> 2840

<211> 363

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2840

Met Thr Leu Ala Ser Arg Leu Ser Thr Ala Ala Asn Ile Gly His Met  
 1 5 10 15  
 Asp Thr Pro Lys Glu Leu Trp Arg Met Ile Thr Gly Asn Met Ala Leu  
 20 25 30  
 Ile Gln Val Gln Ala Thr Val Val Gly Phe Leu Thr Ser Ile Ala Ala  
 35 40 45  
 Val Val Phe Gly Trp Ile Pro Asp Gly His Phe Ser Ile Pro His Ala  
 50 55 60  
 Phe Leu Leu Cys Ala Ser Ser Val Ala Thr Ala Phe Ile Ala Ser Leu  
 65 70 75 80  
 Val Leu Gly Met Ile Met Ile Gly Val Ile Ile Gly Ser Arg Lys Ile  
 85 90 95  
 Gly Ile Asn Pro Asp Asn Val Ala Thr Pro Ile Ala Ala Ser Leu Gly  
 100 105 110  
 Asp Leu Ile Thr Leu Ala Leu Leu Ser Gly Ile Ser Trp Gly Leu Tyr  
 115 120 125  
 Leu Glu Leu Asn His Trp Arg Tyr Ile Tyr Pro Leu Val Cys Ala Phe  
 130 135 140  
 Phe Val Ala Leu Leu Pro Val Trp Val Val Leu Ala Arg Arg Ser Pro  
 145 150 155 160  
 Ala Thr Arg Glu Val Leu Tyr Ser Gly Trp Glu Pro Val Ile Ile Ala  
 165 170 175  
 Met Ala Ile Ser Ser Val Gly Gly Leu Ile Leu Asp Lys Thr Val Ser  
 180 185 190  
 Asp Pro Asn Phe Ala Gly Met Ala Val Phe Thr Pro Val Ile Asn Gly  
 195 200 205  
 Val Gly Gly Asn Leu Val Ala Val Gln Ala Ser Arg Ile Ser Thr Phe  
 210 215 220  
 Leu His Met Asn Gly Met Pro Gly Glu Asn Ser Glu Gln Ala Pro Arg  
 225 230 235 240  
 Arg Cys Pro Ser Pro Cys Thr Thr Phe Phe Ser Pro Asp Val Asn Ser  
 245 250 255  
 Arg Ser Ala Arg Val Leu Phe Leu Leu Val Val Pro Gly His Leu Val  
 260 265 270  
 Phe Leu Tyr Thr Ile Ser Cys Met Gln Gly Gly His Thr Thr Leu Thr

275                      280                      285  
 Leu Ile Phe Ile Ile Phe Tyr Met Thr Ala Ala Leu Leu Gln Val Leu  
 290                      295                      300  
 Ile Leu Leu Tyr Ile Ala Asp Trp Met Val His Trp Met Trp Gly Arg  
 305                      310                      315                      320  
 Gly Leu Asp Pro Asp Asn Phe Ser Ile Pro Tyr Leu Thr Ala Leu Gly  
 325                      330                      335  
 Asp Leu Leu Gly Thr Gly Leu Leu Ala Leu Ser Phe His Val Leu Trp  
 340                      345                      350  
 Leu Ile Gly Asp Arg Asp Thr Asp Val Gly Asp  
 355                      360

<210> 2841

<211> 138

<212> PRT

<213> Homo sapiens

<400> 2841

Met Arg Leu Trp Ser His Leu Leu Gly Arg Leu Arg His Glu Asn His  
 1                      5                      10                      15  
 Leu Asp Leu Gly Gly Arg Gly Cys Ser Glu Leu Arg Ser Arg His Cys  
 20                      25                      30  
 Thr Leu Ala Trp Glu Thr Glu Arg Asp Ser Val Ser Lys Lys Lys Lys  
 35                      40                      45  
 Lys Lys Lys Val Ser Ile Pro Leu Phe Leu Trp Gly Phe Arg Val Thr  
 50                      55                      60  
 Tyr Trp Glu Asn Gly Glu Ile Leu Ala Leu Met Glu Ser Phe Pro Asp  
 65                      70                      75                      80  
 Leu Ser Val Lys Ser Gln Thr Gln Gln Glu Leu Gln Phe Leu Ala Arg  
 85                      90                      95  
 Ala Leu Ala Phe Ala Lys Ala Gly Pro Arg Leu Trp Ser His Gly Phe  
 100                      105                      110  
 Ser His Lys Glu Arg Glu Arg Ile Cys Gly Gln Lys Ile Gly Lys Arg  
 115                      120                      125  
 Gly Arg Lys Ile Arg Phe Leu Arg Leu Gln

130

135

&lt;210&gt; 2842

&lt;211&gt; 177

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2842

```

Met Lys Asn Leu Thr Leu Glu Arg Asn Pro Met Ser Val Ser Asn Val
  1              5              10              15
Val Lys Pro Leu Phe Leu Ser Leu Pro Phe His Ile Met Lys Gly Leu
      20              25              30
Thr Leu Glu Arg Asn Pro Met Ser Val Ser Asn Val Glu Lys Pro Ser
      35              40              45
Asp Leu Pro His Thr Phe Glu Asn Met Val Gly Leu Thr Leu Glu Arg
      50              55              60
Asn Pro Met Asn Val Ser Asn Val Gly Lys Pro Ser Asp Leu Ser Lys
      65              70              75              80
Ile Val Glu Phe Met Lys Gly His Thr Leu Glu Arg Asn Pro Val Asn
      85              90              95
Val Arg Asn Val Gly Lys Arg Ser Ile Ile Ser Leu Leu Cys Lys Tyr
      100             105             110
Met Lys Gly Cys Thr Glu Glu Arg Ser Ser Val Asn Val Ser Ile Val
      115             120             125
Gly Lys His Ser Tyr Leu Pro Arg Ser Phe Glu Tyr Met Gln Glu His
      130             135             140
Thr Met Glu Arg Asn Pro Met Asn Val Lys Asn Ala Glu Lys His Ser
      145             150             155             160
Ala Cys Leu Leu Pro Phe Ile Asp Met Lys Arg His Trp Lys Glu Thr
      165             170             175
Leu

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&lt;210&gt; 2843

&lt;211&gt; 127

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2843

```

Met Leu Glu Phe Arg Ala Lys Val Leu Gln Val Phe Leu Arg Arg Thr
 1             5             10             15
Leu Thr Cys Gln Trp Gln Ser His Thr Pro Gly Thr Tyr Leu Ala Glu
      20             25             30
Glu Cys Leu Phe Arg His Ile Asn Ile Phe Ala Tyr Ser Met Leu Val
      35             40             45
Asn Lys Pro Phe His Lys Gly Ser Leu Arg Thr Ser Asp Phe Lys Gly
      50             55             60
Lys Lys Phe Ile Ile Gln Thr Gly Ser Arg Gly Phe Thr Ile Gln Arg
      65             70             75             80
Leu Ser Cys Ile Trp Leu Val Leu Trp Ala Trp Ser Val Asp His Val
      85             90             95
Leu Ile Phe Ser Ile Lys Ile Arg Thr Ala Leu Gly Arg Pro Arg Ile
      100            105            110
Tyr Ser Ile Cys Gly Ser Leu Ala Glu Ser Arg Asp Pro Gln Pro
      115            120            125

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&lt;210&gt; 2844

&lt;211&gt; 187

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2844

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Met Arg Ala Ala Ser Ser Gln Cys Ile Leu Cys Ser Ser Ile Pro Asp
 1             5             10             15
Gln Pro Gln Gly Leu Pro Ala Glu Pro Leu Gln His Pro Ala Arg Trp
      20             25             30
Glu Arg Gly His Arg Leu Pro Gly Pro Gly Leu Leu Pro Pro Gly Ala
      35             40             45
Thr Gln Cys Asp Leu Glu Arg Lys Arg Thr Gly Arg Asp Arg Gln Glu

```



50                      55                      60  
 Leu Pro Thr Gln Pro Gly Cys Leu Arg Gly Pro Val His His Glu Gln  
 65                      70                      75                      80  
 Pro Ala Asp Pro Ala Gly His Thr Val Pro Ser Arg Gln Val Arg Asp  
                     85                      90                      95  
 Met Pro Arg Glu Ala Leu His Glu Ser Gln Pro Gly Cys Asp Cys Ala  
                     100                      105                      110  
 Leu Pro Ser Ser Leu Asn Ser Thr Tyr Pro Ile Ser Leu Asn Ser Thr  
                     115                      120                      125  
 Tyr Pro Ile Ser Leu Met Leu Pro Pro Pro Thr Val Thr Ala Pro Thr  
                     130                      135                      140  
 Gly Pro Arg Gly Pro Ala Leu Arg Phe Arg Ser Glu Pro His Val His  
 145                      150                      155                      160  
 Thr Asp Arg Pro Glu Arg Cys Leu Arg Cys His Leu His Leu Asp Ala  
                     165                      170                      175  
 Leu Lys Trp Glu Glu Arg Cys Ser Arg Thr Thr  
                     180                      185

<210> 2845

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2845

Met Arg Gly Leu Arg Trp Arg Tyr Thr Arg Leu Pro Ser Gln Val Glu  
 1                      5                      10                      15  
 Asp Thr Leu Ser Gly Glu Glu Gly Asn Glu Glu Glu Glu Glu Glu  
                     20                      25                      30  
 Ala Ala Pro Asp Pro Ala Ala Ala Pro Glu Asp Pro Thr Val Pro Gln  
                     35                      40                      45  
 Leu Thr Glu Ala Ser Gln Val Leu Ser Ala Ser Glu Ile Arg Gln Leu  
                     50                      55                      60  
 Ser Phe His Phe Pro Pro Arg Val Thr Gly His Pro Trp Ser Leu Val  
 65                      70                      75                      80  
 Phe Cys Thr Ser Arg Asp Gly Phe Ser Leu Gln Ser Leu Tyr Arg Arg

	85	90	95
Met Glu Gly Cys Ser Gly Pro Val Leu Leu Val Leu Arg Asp Gln Asp			
100	105	110	
Gly Gln Ile Phe Gly Ala Phe Ser Ser Ser Ala Ile Arg Leu Ser Lys			
115	120	125	
Gly Phe Tyr Gly Thr Gly Glu Thr Phe Leu Phe Ser Phe Ser Pro Gln			
130	135	140	
Leu Lys Val Phe Lys Trp Thr Gly Ser Asn Ser Phe Phe Val Lys Gly			
145	150	155	160
Asp Leu Asp Ser Leu Met Met Gly Ser Gly Ser Gly Arg Phe Gly Leu			
165	170	175	
Trp Leu Asp Gly Asp Leu Phe Arg Gly Gly Ser Ser Pro Cys Pro Thr			
180	185	190	
Phe Asn Asn Glu Val Leu Ala Arg Gln Glu Gln Phe Cys Ile Gln Glu			
195	200	205	
Leu Glu Ala Trp Leu Leu Ser			
210	215		

&lt;210&gt; 2846

&lt;211&gt; 477

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2846

Met Lys His Leu Trp Phe Phe Leu Leu Leu Val Ala Ala Pro Arg Trp			
1	5	10	15
Val Leu Ser Gln Met Gln Leu Gln Glu Ser Gly Pro Gly Val Val Lys			
20	25	30	
Pro Ser Glu Thr Leu Ser Leu Lys Cys Ser Val Ser Gly Gly Ser Leu			
35	40	45	
Ser Gly Leu His Trp Val Trp Val Arg Gln Pro Pro Gly Lys Gly Leu			
50	55	60	
Glu Trp Ile Gly His Thr Tyr Phe Gly Arg Pro Asn Thr Tyr Ser Pro			
65	70	75	80
Ser Leu Arg Ser Arg Val Thr Ile Ser Val Asp Thr Ala Glu Asn Gln			

	85		90		95
Ile Ser Leu Glu Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr					
	100		105		110
Phe Cys Val Gly Leu Phe Glu Gly Leu Gly Gly Arg Gly Phe Trp Gly					
	115		120		125
Gln Gly Val Leu Val Thr Val Ser Pro Ala Ser Pro Thr Ser Pro Lys					
	130		135		140
Val Phe Pro Leu Ser Leu Asp Ser Thr Pro Gln Asp Gly Asn Val Val					
145		150		155	160
Val Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu Pro Leu Ser Val					
	165		170		175
Thr Trp Ser Glu Ser Gly Gln Asn Val Thr Ala Arg Asn Phe Pro Pro					
	180		185		190
Ser Gln Asp Ala Ser Gly Asp Leu Tyr Thr Thr Ser Ser Gln Leu Thr					
	195		200		205
Leu Pro Ala Thr Gln Cys Pro Asp Gly Lys Ser Val Thr Cys His Val					
	210		215		220
Lys His Tyr Thr Asn Pro Ser Gln Asp Val Thr Val Pro Cys Pro Val					
225		230		235	240
Pro Pro Pro Pro Pro Cys Cys His Pro Arg Leu Ser Leu His Arg Pro					
	245		250		255
Ala Leu Glu Asp Leu Leu Leu Gly Ser Glu Ala Asn Leu Thr Cys Thr					
	260		265		270
Leu Thr Gly Leu Arg Asp Ala Ser Gly Ala Thr Phe Thr Trp Thr Pro					
	275		280		285
Ser Ser Gly Lys Ser Ala Val Gln Gly Pro Pro Glu Arg Asp Leu Cys					
	290		295		300
Gly Cys Tyr Ser Val Ser Ser Val Leu Pro Gly Cys Ala Gln Pro Trp					
305		310		315	320
Asn His Gly Glu Thr Phe Thr Cys Thr Ala Ala His Pro Glu Leu Lys					
	325		330		335
Thr Pro Leu Thr Ala Asn Ile Thr Lys Ser Gly Asn Thr Phe Arg Pro					
	340		345		350
Glu Val His Leu Leu Pro Pro Pro Ser Glu Glu Leu Ala Leu Asn Glu					
	355		360		365
Leu Val Thr Leu Thr Cys Leu Ala Arg Gly Phe Ser Pro Lys Asp Val					

370                      375                      380  
 Leu Val Arg Trp Leu Gln Gly Ser Gln Glu Leu Pro Arg Glu Lys Tyr  
 385                      390                      395                      400  
 Leu Thr Trp Ala Ser Arg Gln Glu Pro Ser Gln Gly Thr Thr Thr Phe  
                     405                      410                      415  
 Ala Val Thr Ser Ile Leu Arg Val Ala Ala Glu Asp Trp Lys Lys Gly  
                     420                      425                      430  
 Asp Thr Phe Ser Cys Met Val Gly His Glu Ala Leu Pro Leu Ala Phe  
                     435                      440                      445  
 Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val Asn  
                     450                      455                      460  
 Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr  
 465                      470                      475

<210> 2847

<211> 235

<212> PRT

<213> Homo sapiens

<400> 2847

Met Val Tyr Glu Val Pro Gly Gln Asp Leu Glu Val Asp Leu Tyr Asp  
   1                      5                      10                      15  
 Glu Asp Thr Asp Arg Asp Asp Phe Leu Gly Ser Leu Gln Ile Cys Leu  
                     20                      25                      30  
 Gly Asp Val Met Thr Asn Arg Val Val Asp Glu Trp Phe Val Leu Asn  
                     35                      40                      45  
 Asp Thr Thr Ser Gly Arg Leu His Leu Arg Leu Glu Trp Leu Ser Leu  
                     50                      55                      60  
 Leu Thr Asp Gln Glu Val Leu Thr Glu Asp His Gly Gly Leu Ser Thr  
   65                      70                      75                      80  
 Ala Ile Leu Val Val Phe Leu Glu Ser Ala Cys Asn Leu Pro Arg Asn  
                     85                      90                      95  
 Pro Phe Asp Tyr Leu Asn Gly Glu Tyr Arg Ala Lys Lys Leu Ser Arg  
                     100                      105                      110  
 Phe Ala Arg Asn Lys Val Ser Lys Asp Pro Ser Ser Tyr Val Lys Leu

115	120	125
Ser Val Gly Lys Lys Thr His Thr Ser Lys Thr Cys Pro His Asn Lys		
130	135	140
Asp Pro Val Trp Ser Gln Val Phe Ser Phe Phe Val His Asn Val Ala		
145	150	155
Thr Glu Arg Leu His Leu Lys Val Leu Asp Asp Asp Gln Glu Cys Ala		
165	170	175
Leu Gly Met Leu Glu Val Pro Leu Cys Gln Ile Leu Pro Tyr Ala Asp		
180	185	190
Leu Thr Leu Glu Gln Arg Phe Gln Leu Asp His Ser Gly Leu Asp Ser		
195	200	205
Leu Ile Ser Met Arg Leu Val Leu Arg Phe Leu Gln Gly Arg Asn Glu		
210	215	220
Ser Trp Gly Ala His Thr Gln Asp Leu Lys Pro		
225	230	235

&lt;210&gt; 2848

&lt;211&gt; 144

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2848

Met Leu Arg Ala Ala Leu Pro Ala Leu Leu Leu Pro Leu Leu Gly Leu
1 5 10 15
Ala Ala Ala Ala Val Ala Gly Lys Pro Leu Arg Ser Pro Ser Pro Gly
20 25 30
Pro Cys Ala Thr Ala Phe Ala Pro Phe Pro Thr His Ala Leu Arg Pro
35 40 45
Arg Ala Pro Glu Gly Gly Pro Gln Thr Gln His Pro Ala Gly His Pro
50 55 60
Ala Leu Pro Cys Thr Pro Val Pro Arg Gly Ser Trp Leu Arg Val Thr
65 70 75 80
Ser His Pro Pro Ala Leu Gly Glu Gly Arg Trp Pro Arg Ile Arg Glu
85 90 95
Gly Ser Val Phe Leu Gly Val His Ile Leu Thr Ala Asp Pro Thr Pro

100	105	110
Arg Gly Gly Asn Pro Gln Ile Arg Pro Val Gly Arg Arg Thr Glu Gly		
115	120	125
Leu Gly Val Ala Arg Arg Ala Pro Phe Gln Gly Asn Phe Gly Leu Lys		
130	135	140

&lt;210&gt; 2849

&lt;211&gt; 629

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2849

Met Leu Arg Met Val Ser Ala Val Leu Gln Phe Gly Asn Ile Ala Leu			
1	5	10	15
Lys Arg Glu Arg Asn Thr Asp Gln Ala Thr Met Pro Asp Asn Thr Ala			
20	25	30	
Ala Gln Lys Leu Cys Arg Leu Leu Gly Leu Gly Val Thr Asp Phe Ser			
35	40	45	
Arg Ala Leu Leu Thr Pro Arg Ile Lys Val Gly Arg Asp Tyr Val Gln			
50	55	60	
Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Leu Glu Ala Leu Ala			
65	70	75	80
Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Leu Val Leu Arg Leu Asn			
85	90	95	
Arg Ala Leu Asp Arg Ser Pro Arg Gln Gly Ala Ser Phe Leu Gly Ile			
100	105	110	
Leu Asp Ile Ala Gly Phe Glu Ile Phe Gln Leu Asn Ser Phe Glu Gln			
115	120	125	
Leu Cys Ile Asn Tyr Ala Asn Glu Lys Leu Gln Gln Leu Phe Asn His			
130	135	140	
Thr Met Phe Val Leu Glu Gln Glu Glu Tyr Gln Arg Glu Gly Ile Pro			
145	150	155	160
Trp Thr Phe Leu Asp Phe Gly Leu Asp Leu Gln Pro Cys Ile Asp Leu			
165	170	175	
Ile Glu Arg Pro Ala Asn Pro Pro Gly Leu Leu Ala Leu Leu Asp Glu			

180	185	190
Glu Cys Trp Phe Pro Lys Ala Thr Asp Lys Ser Phe Val Glu Lys Val		
195	200	205
Ala Gln Glu Gln Gly Gly His Pro Lys Phe Gln Arg Pro Arg His Leu		
210	215	220
Arg Asp Gln Ala Asp Phe Ser Val Leu His Tyr Ala Gly Lys Val Asp		
225	230	235
240		
Tyr Lys Ala Asn Glu Trp Leu Met Lys Asn Met Asp Pro Leu Asn Asp		
245	250	255
Asn Val Ala Ala Leu Leu His Gln Ser Thr Asp Arg Leu Thr Ala Glu		
260	265	270
Ile Trp Lys Asp Val Glu Gly Ile Val Gly Leu Glu Gln Val Ser Ser		
275	280	285
Leu Gly Asp Gly Pro Pro Gly Gly Arg Pro Arg Arg Gly Met Phe Arg		
290	295	300
Thr Val Gly Gln Leu Tyr Lys Glu Ser Leu Ser Arg Leu Met Ala Thr		
305	310	315
320		
Leu Ser Asn Thr Asn Pro Ser Phe Val Arg Cys Ile Val Pro Asn His		
325	330	335
Glu Lys Arg Ala Gly Lys Leu Glu Pro Arg Leu Val Leu Asp Gln Leu		
340	345	350
Arg Cys Asn Gly Val Leu Glu Gly Ile Arg Ile Cys Arg Gln Gly Phe		
355	360	365
Pro Asn Arg Ile Leu Phe Gln Glu Phe Arg Gln Arg Tyr Glu Ile Leu		
370	375	380
Thr Pro Asn Ala Ile Pro Lys Gly Phe Met Asp Gly Lys Gln Ala Cys		
385	390	395
400		
Glu Lys Met Ile Gln Ala Leu Glu Leu Asp Pro Asn Leu Tyr Arg Val		
405	410	415
Gly Gln Ser Lys Ile Phe Phe Arg Ala Gly Val Leu Ala Gln Leu Glu		
420	425	430
Glu Glu Arg Asp Leu Lys Val Thr Asp Ile Ile Val Ser Phe Gln Ala		
435	440	445
Ala Ala Arg Gly Tyr Leu Ala Arg Arg Ala Phe Gln Lys Arg Gln Gln		
450	455	460
Gln Gln Ser Ala Leu Arg Val Met Gln Arg Asn Cys Ala Ala Tyr Leu		

465                      470                      475                      480  
 Lys Leu Arg His Trp Gln Trp Trp Arg Leu Phe Thr Lys Val Lys Pro  
                             485                      490                      495  
 Leu Leu Gln Val Thr Arg Gln Asp Glu Val Leu Gln Ala Arg Ala Gln  
                             500                      505                      510  
 Glu Leu Gln Lys Val Gln Glu Leu Gln Gln Gln Ser Ala Arg Glu Val  
                             515                      520                      525  
 Gly Glu Leu Gln Gly Arg Val Ala Gln Leu Glu Glu Glu Arg Ala Arg  
                             530                      535                      540  
 Leu Ala Glu Gln Leu Arg Ala Glu Ala Glu Leu Cys Ala Glu Ala Glu  
 545                      550                      555                      560  
 Glu Thr Arg Gly Arg Leu Ala Ala Arg Lys Gln Glu Leu Glu Leu Val  
                             565                      570                      575  
 Val Ser Glu Leu Glu Ala Arg Val Gly Glu Glu Glu Glu Cys Ser Arg  
                             580                      585                      590  
 Gln Met Gln Thr Glu Lys Lys Arg Leu Gln Gln His Ile Gln Glu Leu  
                             595                      600                      605  
 Glu Ala His Leu Glu Ala Glu Glu Gly Ala Arg Gln Lys Leu Gln Leu  
                             610                      615                      620  
 Glu Lys Val Thr Thr  
 625

<210> 2850

<211> 102

<212> PRT

<213> Homo sapiens

<400> 2850

Met Gly Ser Asp Cys Glu Ser His Lys His Ser Pro Leu Asn Pro Asn  
   1                      5                      10                      15  
 Ile Thr Gln Leu Pro Phe Ser Trp Val Pro Lys Met Pro Met Asp Thr  
                             20                      25                      30  
 Ser Phe Leu Pro Tyr Val Lys Val Thr Glu Val Glu Gly Lys Glu Phe  
                             35                      40                      45  
 Gly Ile Glu Asn Asp Lys Asp Leu Arg Arg Leu Pro Leu Lys Tyr Leu



50                      55                      60  
 Pro Leu Glu Met Tyr Lys Asn Gly Pro Gly Thr Val Ala His Thr Cys  
 65                      70                      75                      80  
 Asn Pro Asn Thr Leu Gly Gly Arg Gly Arg Trp Ile Thr Arg Ser Gly  
                     85                      90                      95  
 Glu Gln Asp His Pro Gly  
                     100

<210> 2851

<211> 494

<212> PRT

<213> Homo sapiens

<400> 2851

Met Glu Leu Ser Leu Ser Trp Phe Phe Leu Leu Thr Ile Ile Gln Gly  
 1                      5                      10                      15  
 Val Gln Cys Glu Gln Gln Leu Val Gln Ser Ala Gly Gly Leu Val Gln  
                     20                      25                      30  
 Pro Gly Gly Ser Leu Arg Leu Ser Cys Ser Ala Ser Gly Phe Thr Phe  
                     35                      40                      45  
 Glu Asn His Ala Met His Trp Val Arg Gln Val Pro Gly Lys Arg Leu  
                     50                      55                      60  
 Glu Trp Val Ser Gly Ile Asp Trp Asn Gly Gly Asp Ala Gly Tyr Ala  
 65                      70                      75                      80  
 Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Lys  
                     85                      90                      95  
 Ser Leu Tyr Leu Gln Met Ser Ser Leu Arg Pro Asp Asp Ser Ala Phe  
                     100                      105                      110  
 Tyr Phe Cys Ala Arg Asp Thr Val Ser Gly Trp Met Asp Trp Ser Phe  
                     115                      120                      125  
 Asp Leu Trp Gly Arg Gly Thr Leu Val Ser Val Ser Ser Ala Ser Pro  
                     130                      135                      140  
 Thr Ser Pro Lys Val Phe Pro Leu Ser Leu Cys Ser Thr Gln Pro Asp  
 145                      150                      155                      160  
 Gly Asn Val Val Ile Ala Cys Leu Val Gln Gly Phe Phe Pro Gln Glu

	165		170		175										
Pro	Leu	Ser	Val	Thr	Trp	Ser	Glu	Ser	Gly	Gln	Gly	Val	Thr	Ala	Arg
	180					185						190			
Asn	Phe	Pro	Pro	Ser	Gln	Asp	Ala	Ser	Gly	Asp	Leu	Tyr	Thr	Thr	Ser
	195					200						205			
Ser	Gln	Leu	Thr	Leu	Pro	Ala	Thr	Gln	Cys	Leu	Ala	Gly	Lys	Ser	Val
	210					215						220			
Thr	Cys	His	Val	Lys	His	Tyr	Thr	Asn	Pro	Ser	Gln	Asp	Val	Thr	Val
225					230					235				240	
Pro	Cys	Pro	Val	Pro	Ser	Thr	Pro	Pro	Thr	Pro	Ser	Pro	Ser	Thr	Pro
			245					250					255		
Pro	Thr	Pro	Ser	Pro	Ser	Cys	Cys	His	Pro	Arg	Leu	Ser	Leu	His	Arg
	260							265					270		
Pro	Ala	Leu	Glu	Asp	Leu	Leu	Leu	Gly	Ser	Glu	Ala	Asn	Leu	Thr	Cys
	275						280					285			
Thr	Leu	Thr	Gly	Leu	Arg	Asp	Ala	Ser	Gly	Val	Thr	Phe	Thr	Trp	Thr
	290					295						300			
Pro	Ser	Ser	Gly	Lys	Ser	Ala	Val	Gln	Gly	Pro	Pro	Asp	Arg	Asp	Leu
305				310					315					320	
Cys	Gly	Cys	Tyr	Ser	Val	Ser	Ser	Val	Leu	Pro	Gly	Cys	Ala	Glu	Pro
			325					330				335			
Trp	Asn	His	Gly	Lys	Thr	Phe	Thr	Cys	Thr	Ala	Ala	Tyr	Pro	Glu	Ser
	340							345				350			
Lys	Thr	Pro	Leu	Thr	Ala	Thr	Leu	Ser	Lys	Ser	Gly	Asn	Thr	Phe	Arg
	355					360						365			
Pro	Glu	Val	His	Leu	Leu	Pro	Pro	Pro	Ser	Glu	Glu	Leu	Ala	Leu	Asn
	370					375						380			
Glu	Leu	Val	Thr	Leu	Thr	Cys	Leu	Ala	Arg	Gly	Phe	Ser	Pro	Lys	Asp
385				390					395					400	
Val	Leu	Val	Arg	Trp	Leu	Gln	Gly	Ser	Gln	Glu	Leu	Pro	Arg	Glu	Lys
			405					410					415		
Tyr	Leu	Thr	Trp	Ala	Ser	Arg	Gln	Glu	Pro	Ser	Gln	Gly	Thr	Thr	Thr
	420							425					430		
Phe	Ala	Val	Thr	Ser	Ile	Leu	Arg	Val	Ala	Ala	Glu	Asp	Trp	Lys	Lys
	435					440						445			
Gly	Asp	Thr	Phe	Ser	Cys	Met	Val	Gly	His	Glu	Ala	Leu	Pro	Leu	Ala

450                      455                      460  
 Phe Thr Gln Lys Thr Ile Asp Arg Leu Ala Gly Lys Pro Thr His Val  
 465                      470                      475                      480  
 Asn Val Ser Val Val Met Ala Glu Val Asp Gly Thr Cys Tyr  
                     485                      490

<210> 2852

<211> 167

<212> PRT

<213> Homo sapiens

<400> 2852

Met Arg Thr Pro Val Val Met Thr Leu Gly Met Val Leu Ala Pro Cys  
   1                      5                      10                      15  
 Gly Leu Leu Leu Asn Leu Thr Gly Thr Pro Val Thr Val Gln Val Ser  
                     20                      25                      30  
 Tyr Ser Leu Val Leu Gly Tyr Leu Gly Ser Cys Leu Leu Leu Leu Gly  
                     35                      40                      45  
 Gly Phe Ser Leu Ala Leu Ser Phe Ala Pro Trp Cys Asp Glu Arg Cys  
                     50                      55                      60  
 Arg Arg Arg Arg Lys Gly Pro Ser Ala Gly Pro Arg Arg Ser Ser Val  
   65                      70                      75                      80  
 Ser Thr Ile Gln Val Glu Trp Pro Glu Pro Asp Leu Ala Pro Ala Ile  
                     85                      90                      95  
 Lys Tyr Tyr Ser Asp Gly Gln His Arg Pro Pro Pro Ala Gln His Arg  
                     100                      105                      110  
 Lys Pro Lys Pro Lys Pro Lys Val Gly Phe Pro Met Pro Arg Pro Arg  
                     115                      120                      125  
 Pro Lys Ala Tyr Thr Asn Ser Val Asp Val Leu Asp Gly Glu Gly Trp  
                     130                      135                      140  
 Glu Ser Gln Asp Ala Pro Ser Cys Ser Thr His Pro Cys Asp Ser Ser  
   145                      150                      155                      160  
 Leu Pro Cys Asp Ser Asp Leu  
                     165

&lt;210&gt; 2853

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2853

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Met Trp Arg Gly Ile Asp Ser Ile Tyr Pro Tyr Glu Ser Trp Ser Leu
  1             5             10            15
Thr Leu Leu Ser Arg Leu Glu Phe Ser Gly Arg Ile Met Ala Tyr Cys
      20             25            30
Ser Leu Glu Leu Leu Gly Ser Asn His Pro Pro Thr Ser Ala Phe Cys
      35             40            45
Cys Arg Arg Ile Phe Cys Leu Leu Glu Pro Ala Val Ser Thr Gln Glu
      50             55            60
Trp Lys Phe Ser Gln Lys Met Gln His Thr Val Lys Ile Ser Gly Asp
      65             70            75            80
Ala Ser Thr Lys Ala His Arg Gly Val Lys Ser Val Ile Thr Phe Phe
      85             90            95
Leu Leu Tyr Ala Ile Phe Ser Leu Ser Phe Phe Ile Ser Val Trp Thr
      100            105            110
Ser Glu Arg Leu Glu Glu Asn Leu Ile Ile Leu Ser Gln Val Met Gly
      115            120            125
Met Ala Tyr Pro Ser Cys His Ser Cys Val Leu Ile Leu Gly Asn Lys
      130            135            140
Lys Leu Arg Gln Ala Ser Leu Ser Val Leu Leu Trp Leu Arg Tyr Met
      145            150            155            160
Phe Lys Asp Gly Glu Pro Ser Gly His Lys Glu Phe Arg Glu Ser Ser
      165            170            175

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&lt;210&gt; 2854

&lt;211&gt; 101

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2854

Met Gly His Glu Pro Cys Gly Pro Cys Asp Gly Pro Ser Val Thr Leu  
 1 5 10 15  
 Gln His Gly Ser Cys Pro Leu Gly Leu His Pro Ser Thr Gly Thr Pro  
 20 25 30  
 Ala Met Ala Ile Arg Gly Thr Ala Arg Gly Thr Cys Trp Met Ser Pro  
 35 40 45  
 Ser Gln Pro Phe Pro Ser Pro Pro Gly Leu Thr Pro Ala Pro Glu Ala  
 50 55 60  
 Leu Pro Pro Thr Trp Pro Lys Ala Pro Leu Ser Leu Arg Leu Arg Phe  
 65 70 75 80  
 Pro Phe Val Phe Gly Asn Pro Val Gly Ser His Leu Ala Ser Pro Trp  
 85 90 95  
 His Ser Trp Gly Asp  
 100

&lt;210&gt; 2855

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2855

Met Phe His Cys Phe Ile Trp Leu Ser Leu His Gln Tyr Gln Ile Phe  
 1 5 10 15  
 Leu Ile Ile Val Ala Leu His Cys Ser Gly Ile Gln Trp Ser Lys Ser  
 20 25 30  
 Ser Tyr Leu Lys Ser Gln Thr Pro Cys Gln Ile Pro Met Cys His Phe  
 35 40 45  
 Ser Gly Pro Thr Ile Gly Ser Tyr Lys Gly Arg Thr Pro His Glu Gly  
 50 55 60  
 Lys Leu Pro Ser Pro Cys Gln Thr Trp Gly Thr Ala Asn Ala Leu Gln  
 65 70 75 80  
 Ser Leu Lys Lys Val Ala Val Lys Asp Pro Asp Pro Arg Pro Ser His  
 85 90 95

Ala Leu Arg His Ile Cys Ile Pro Ser Pro Ser Thr Ser Val  
 100 105 110

<210> 2856

<211> 183

<212> PRT

<213> Homo sapiens

<400> 2856

Met Trp Ser Gly Arg Asp Thr Cys Pro Leu Lys Asn Ser Ala Leu Asp  
 1 5 10 15  
 Ser Lys Thr Ser Leu Ala Pro Ala Arg Ala Pro Thr Gly Ser Ala Glu  
 20 25 30  
 Gly Ser His Cys Pro Leu Ser Gly Tyr Leu Leu Pro Pro Ala Ser Gln  
 35 40 45  
 Leu Trp Arg Arg Arg Met Leu Arg Arg Arg Arg Arg Ser Leu Pro Ser  
 50 55 60  
 Trp Ser Ser Trp Gly Val Gln Cys Arg Leu Gly Ser Gln His Pro Gly  
 65 70 75 80  
 Ala Cys Ser Lys Pro Gly Gln Val Thr Gln Asp Ala Arg Arg Arg Pro  
 85 90 95  
 Glu Gly Leu Ala Gly Glu Gly Gly Pro Gln Glu Ala Ala Gln Glu Ile  
 100 105 110  
 Arg Leu Leu Leu Leu Ile Thr Cys Pro Val Leu Gly Arg Met Asp Thr  
 115 120 125  
 His Gly Val Ser Cys Pro Ser Ala Pro Val Leu Cys Ser Trp Thr Ala  
 130 135 140  
 Thr Thr Gln Arg Thr Ser Leu Glu Val Gln Glu Asn Pro Ser Gln Leu  
 145 150 155 160  
 Arg Thr Arg Ile Pro Glu Gln Gly Arg Ile Thr Ser Ala Phe His Thr  
 165 170 175  
 Pro Lys Glu Gly Phe Ala Glu  
 180

&lt;210&gt; 2857

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2857

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Met Ile His Ala Arg His Leu Gly Leu Lys Arg Thr Val Thr Ser Ser
  1             5             10             15
Glu Ala Leu Leu Tyr Ser Ser Asp Gln Val Ala Asn Thr Ser Leu His
          20             25             30
Thr Arg Ala Gln Asn Gln Lys Gln Ala Gly Ile Val Lys Leu Gly Gln
          35             40             45
Trp His Ala Pro Val Ile Pro Ala Thr Trp Glu Ala Glu Val Gly Gly
          50             55             60
Ser Leu Glu Pro Arg Ser Ser Lys Pro Met Arg Phe His Leu Gln Lys
          65             70             75             80
Glu Arg Lys Lys Gln Glu Thr Gly Cys Ser Leu Val Cys Leu Pro Pro
          85             90             95
Gln His Arg Thr Leu Leu Ile Thr Gly
          100             105

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&lt;210&gt; 2858

&lt;211&gt; 260

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2858

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Met Pro Arg Gln Phe Gln Asp Thr Gly Phe Ser Arg Pro Gly Leu Gly
  1             5             10             15
Gln Pro Arg Arg Cys Asp Pro Glu Pro Arg Lys Ser Asp Gln Gln Leu
          20             25             30
Asp Cys Ala Leu Asp Leu Met Arg Arg Leu Pro Pro Gln Gln Ile Glu
          35             40             45
Lys Asn Leu Ser Asp Leu Ile Asp Leu Val Pro Ser Leu Cys Glu Asp
          50             55             60

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Leu Leu Ser Ser Val Asp Gln Pro Leu Lys Ile Ala Arg Asp Lys Val  
 65 70 75 80  
 Val Gly Lys Asp Tyr Leu Leu Cys Asp Tyr Asn Arg Asp Gly Asp Ser  
 85 90 95  
 Tyr Arg Ser Pro Trp Ser Asn Lys Tyr Asp Pro Pro Leu Glu Asp Gly  
 100 105 110  
 Ala Met Pro Ser Ala Arg Leu Arg Lys Leu Glu Val Glu Ala Asn Asn  
 115 120 125  
 Ala Phe Asp Gln Tyr Arg Asp Leu Tyr Phe Glu Gly Gly Val Ser Ser  
 130 135 140  
 Val Tyr Leu Trp Asp Leu Asp His Gly Phe Ala Gly Val Ile Leu Ile  
 145 150 155 160  
 Lys Lys Ala Gly Asp Gly Ser Lys Lys Ile Lys Gly Cys Trp Asp Ser  
 165 170 175  
 Ile His Val Val Glu Val Gln Glu Lys Ser Ser Gly Arg Thr Ala His  
 180 185 190  
 Tyr Lys Leu Thr Ser Thr Val Met Leu Trp Leu Gln Thr Asn Lys Ser  
 195 200 205  
 Gly Ser Gly Thr Met Asn Leu Gly Gly Ser Leu Thr Arg Gln Met Glu  
 210 215 220  
 Lys Asp Glu Thr Val Ser Asp Cys Ser Pro His Ile Ala Asn Ile Gly  
 225 230 235 240  
 Arg Leu Val Glu Val Cys Ala Asp Phe Cys Arg Gln Ile Lys Thr Arg  
 245 250 255  
 Ser Ser Glu Glu  
 260

<210> 2859

<211> 710

<212> PRT

<213> Homo sapiens

<400> 2859

Met Val Met Ala Cys Arg Val Val Asn Lys Arg Arg His Met Gly Leu  
 1 5 10 15



Gln Gln Leu Ser Ser Phe Ala Glu Thr Gly Arg Thr Phe Leu Gly Pro  
                   20                                  25                                  30  
 Leu Lys Ser Ser Lys Phe Ile Ile Asp Glu Glu Cys His Glu Ser Val  
                   35                                  40                                  45  
 Leu Ile Ser Ser Thr Val Arg Leu Leu Glu Ser Leu Asp Leu Thr Ser  
                   50                                  55                                  60  
 Ala Val Gly Gln Leu Leu Asn Glu Ala Val Gln Ala Gln Asn Asn Thr  
                   65                                  70                                  75                                  80  
 Tyr Arg Thr Gly Ile Ser Thr Leu Leu Phe Leu Val Gly Ala Trp Ser  
                                   85                                  90                                  95  
 Ser Ala Val Glu Glu Cys Leu His Leu Gly Val Pro Ile Ser Ile Ile  
                   100                                  105                                  110  
 Val Ser Val Met Ser Glu Gly Leu Asn Phe Cys Ser Glu Glu Val Val  
                   115                                  120                                  125  
 Ser Leu His Val Pro Val His Asn Ile Phe Asp Cys Met Asp Ser Thr  
                   130                                  135                                  140  
 Lys Thr Phe Ser Gln Leu Glu Thr Phe Ser Val Ser Leu Cys Pro Phe  
                   145                                  150                                  155                                  160  
 Leu Gln Val Pro Ser Asp Thr Asp Leu Ile Glu Glu Leu His Gly Leu  
                                   165                                  170                                  175  
 Lys Asp Val Ala Ser Gln Thr Leu Thr Ile Ser Asn Leu Ser Gly Arg  
                   180                                  185                                  190  
 Pro Leu Lys Ser Tyr Glu Leu Phe Lys Pro Gln Thr Lys Val Glu Ala  
                   195                                  200                                  205  
 Asp Asn Asn Thr Ser Arg Thr Leu Lys Asn Ser Leu Leu Ala Asp Thr  
                   210                                  215                                  220  
 Cys Cys Arg Gln Ser Ile Leu Ile His Ser Arg His Phe Asn Arg Thr  
                   225                                  230                                  235                                  240  
 Asp Asn Thr Glu Gly Val Ser Lys Pro Asp Gly Phe Gln Glu His Val  
                                   245                                  250                                  255  
 Thr Ala Thr His Lys Thr Tyr Arg Cys Asn Asp Leu Val Glu Leu Ala  
                   260                                  265                                  270  
 Val Gly Leu Ser His Gly Asp His Ser Ser Met Lys Leu Val Glu Glu  
                   275                                  280                                  285  
 Ala Val Gln Leu Gln Tyr Gln Asn Ala Cys Val Gln Gln Gly Asn Cys  
                   290                                  295                                  300

Thr Lys Pro Phe Met Phe Asp Ile Ser Arg Ile Phe Thr Cys Cys Leu  
 305 310 315 320  
 Pro Gly Leu Pro Glu Thr Ser Ser Cys Val Cys Pro Gly Tyr Ile Thr  
 325 330 335  
 Val Val Ser Val Ser Asn Asn Pro Val Ile Lys Glu Leu Gln Asn Gln  
 340 345 350  
 Pro Val Arg Ile Val Leu Ile Glu Gly Asp Leu Thr Glu Asn Tyr Arg  
 355 360 365  
 His Leu Gly Phe Asn Lys Ser Ala Asn Ile Lys Thr Val Leu Asp Ser  
 370 375 380  
 Met Gln Leu Gln Glu Asp Ser Ser Glu Glu Leu Trp Ala Asn His Val  
 385 390 395 400  
 Leu Gln Val Leu Ile Gln Phe Lys Val Asn Leu Val Leu Val Gln Gly  
 405 410 415  
 Asn Val Ser Glu Arg Leu Ile Glu Lys Cys Ile Asn Ser Lys Arg Leu  
 420 425 430  
 Val Ile Gly Ser Val Asn Gly Ser Val Met Gln Ala Phe Ala Glu Ala  
 435 440 445  
 Ala Gly Ala Val Gln Val Ala Tyr Ile Thr Gln Val Asn Glu Asp Cys  
 450 455 460  
 Val Gly Asp Gly Val Cys Val Thr Phe Trp Arg Ser Ser Pro Leu Asp  
 465 470 475 480  
 Val Val Asp Arg Asn Asn Arg Ile Ala Ile Leu Leu Lys Thr Glu Gly  
 485 490 495  
 Ile Asn Leu Val Thr Ala Val Leu Thr Asn Pro Val Thr Ala Gln Met  
 500 505 510  
 Gln Ile Lys Glu Asp Arg Phe Trp Thr Cys Ala Tyr Arg Leu Tyr Tyr  
 515 520 525  
 Ala Leu Lys Glu Glu Lys Val Phe Leu Gly Gly Gly Ala Val Glu Phe  
 530 535 540  
 Leu Cys Leu Ser Cys Leu His Ile Leu Ala Glu Gln Ser Leu Lys Lys  
 545 550 555 560  
 Glu Asn His Ala Cys Ser Gly Trp Leu His Asn Thr Ser Ser Trp Leu  
 565 570 575  
 Ala Ser Ser Leu Ala Ile Tyr Arg Pro Thr Val Leu Lys Phe Leu Ala  
 580 585 590

Asn Gly Trp Gln Lys Tyr Leu Ser Thr Leu Leu Tyr Asn Thr Ala Asn  
 595 600 605  
 Tyr Ser Ser Glu Phe Glu Ala Ser Thr Tyr Ile Gln His His Leu Gln  
 610 615 620  
 Asn Ala Thr Asp Ser Gly Ser Pro Ser Ser Tyr Ile Leu Asn Glu Tyr  
 625 630 635 640  
 Ser Lys Leu Asn Ser Arg Ile Phe Asn Ser Asp Ile Ser Asn Lys Leu  
 645 650 655  
 Glu Gln Ile Pro Arg Val Tyr Asp Val Val Thr Pro Lys Ile Glu Ala  
 660 665 670  
 Trp Arg Arg Ala Leu Asp Leu Val Leu Leu Val Leu Gln Thr Asp Ser  
 675 680 685  
 Glu Ile Ile Thr Gly His Gly His Thr Gln Ile Asn Ser Gln Glu Leu  
 690 695 700  
 Thr Gly Phe Leu Phe Leu  
 705 710

<210> 2860

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2860

Met Thr Ser His Gly Ala Phe Thr Ser Gln Val Tyr Cys Gly Ile Thr  
 1 5 10 15  
 Tyr Thr His Lys Ala His Pro Phe Ser Met His Ser Arg Arg Leu Gly  
 20 25 30  
 Lys Cys Pro Glu Trp Gly Thr Ser Ala Pro Thr Glu Ala Ala His Ile  
 35 40 45  
 Leu Pro Leu Cys Ser Gln Ala Pro Ser Arg Pro Pro Thr Thr Thr Cys  
 50 55 60  
 Leu Ser Ser Val Leu Gln Leu Cys Val Leu Gln Asn Cys Pro Val Ser  
 65 70 75 80  
 Asp Ser His Arg Met Glu Thr Phe Val Ser Gly Phe Leu His Phe Ala  
 85 90 95

Ala Gly Phe Ala Gly Pro Val Trp Trp His Gln Arg Pro Ala Leu Gly  
                   100                  105                  110  
 Ala Ala Glu Leu  
                   115

<210> 2861

<211> 186

<212> PRT

<213> Homo sapiens

<400> 2861

Met Thr Thr Glu Met Gly Glu Ala Arg His Val Arg Thr Leu Ser Ser  
   1                  5                  10                  15  
 Glu Arg Cys Pro Arg Leu Leu Ala Ser Cys Ala Val Val Leu Trp Val  
                   20                  25                  30  
 Cys His Thr Leu Pro Cys Phe Cys Ser His Trp Glu Ala His Ser Trp  
           35                  40                  45  
 Leu Thr Ser Pro Ser Gln Gly Pro Thr Trp Glu Pro Gly Ser Leu Asp  
           50                  55                  60  
 Cys Pro Gly His Arg Phe Gln Gly Pro Pro Leu Leu Ser Ser Glu Pro  
   65                  70                  75                  80  
 Arg Gly Ile Leu Leu Leu Lys Asn Thr Tyr Gly Ile Pro Ile Cys Ala  
                   85                  90                  95  
 Gly Gln Cys Pro Lys His Leu Asp Tyr Ile Arg Glu Glu His Arg Pro  
           100                  105                  110  
 His Pro Cys Pro His Ala Ala Tyr Val Phe Trp Arg Lys Val Glu Thr  
           115                  120                  125  
 Gln Val Leu Gly Phe Arg Ala Pro Pro Ala Gly Gly Cys Ala Val Arg  
           130                  135                  140  
 Ser Gly Arg Glu Gly Lys Cys Thr Ala Ala Cys Glu Pro Tyr Gln Pro  
   145                  150                  155                  160  
 Arg Arg Met Pro Leu Pro Leu Ser Thr Thr Leu Ala Ser Cys Ile Pro  
                   165                  170                  175  
 Ser Pro His Val Pro Pro Thr Phe Lys Glu  
           180                  185

&lt;210&gt; 2862

&lt;211&gt; 105

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2862

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Met Tyr Arg Pro Val Met Ala Ser Cys Thr Ser Val Ser Leu Trp Met
 1             5             10             15
Ile Ala Leu Leu Val Phe Gly Val Leu Ala Ile Phe Gly Ile Ala Ile
      20             25             30
Gly Leu Leu Val His Phe Leu Ala Val Ala Asn Arg Ile Tyr Phe Tyr
      35             40             45
Gln Gly Ser Phe Lys Met Leu Asp Ile Pro Tyr Asn Ser Asn Tyr Glu
      50             55             60
Arg Glu Thr Ser Pro Glu Asn Asn Tyr Leu Ser Gln Ile Leu Glu Thr
      65             70             75             80
Arg Trp Leu Met His Phe Lys Val Leu Ala Phe Thr Asp Asn Ile Ser
      85             90             95
Phe Leu Lys Ser Ser His Trp Cys Lys
      100             105

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&lt;210&gt; 2863

&lt;211&gt; 557

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2863

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Met Ser Glu Ala Ala Ser Gln Gly Leu Arg Ala Ala Ala Arg Ser Val
 1             5             10             15
Trp Ala Gly Thr Asp Arg Arg Gly Cys Arg His Arg Arg Pro Val Pro
      20             25             30
Leu Cys Ser Gly Thr Ala Leu Ser Gln Cys Pro Arg Phe Pro Arg Arg

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35	40	45
Leu His Ala Ala Arg Leu Gly Asn Met Leu Gly Val Leu Val Leu Gly		
50	55	60
Ala Leu Ala Leu Ala Gly Leu Gly Phe Pro Ala Pro Gly Cys Gly Asp		
65	70	75
Pro Lys Arg Leu Gly Pro Leu Arg Gly Phe Gln Trp Val Thr Gly Asp		
85	90	95
Asn Asn Thr Ser Tyr Ser Arg Trp Ala Arg Leu Asp Leu Asn Gly Ala		
100	105	110
Pro Leu Cys Gly Pro Leu Cys Val Ala Val Ser Ala Ala Glu Ala Thr		
115	120	125
Val Pro Ser Glu Pro Ile Trp Glu Glu Gln Gln Cys Glu Val Lys Ala		
130	135	140
Asp Gly Phe Leu Cys Glu Phe His Phe Pro Ala Thr Cys Arg Pro Leu		
145	150	155
Ala Val Glu Pro Gly Ala Ala Ala Ala Val Ser Ile Thr Tyr Gly		
165	170	175
Thr Pro Phe Ala Ala Arg Gly Ala Asp Phe Gln Ala Leu Pro Val Gly		
180	185	190
Ser Ser Ala Ala Val Ala Pro Leu Gly Leu Gln Leu Met Cys Thr Ala		
195	200	205
Pro Pro Gly Ala Val Gln Gly His Trp Ala Arg Glu Ala Pro Gly Ala		
210	215	220
Trp Asp Cys Ser Val Glu Asn Gly Gly Cys Glu His Ala Cys Asn Ala		
225	230	235
Ile Pro Gly Ala Pro Arg Cys Gln Cys Pro Ala Gly Ala Ala Leu Gln		
245	250	255
Ala Asp Gly Arg Ser Cys Thr Ala Ser Ala Thr Gln Ser Cys Asn Asp		
260	265	270
Leu Cys Glu His Phe Cys Val Pro Asn Pro Asp Gln Pro Gly Ser Tyr		
275	280	285
Ser Cys Met Cys Glu Thr Gly Tyr Arg Leu Ala Ala Asp Gln His Arg		
290	295	300
Cys Glu Asp Val Asp Asp Cys Ile Leu Glu Pro Ser Pro Cys Pro Gln		
305	310	315
Arg Cys Val Asn Thr Gln Gly Gly Phe Glu Cys His Cys Tyr Pro Asn		

	325		330		335
Tyr	Asp	Leu	Val	Asp	Gly
				Glu	Cys
			Val	Glu	Pro
			Val	Asp	Pro
				Cys	Phe
	340		345		350
Arg	Ala	Asn	Cys	Glu	Tyr
			Gln	Cys	Gln
			Pro	Leu	Asn
			Gln	Thr	Ser
				Tyr	
	355		360		365
Leu	Cys	Val	Cys	Ala	Glu
			Gly	Phe	Ala
			Pro	Ile	Pro
			His	Glu	Pro
				His	
	370		375		380
Arg	Cys	Gln	Met	Phe	Cys
			Asn	Gln	Thr
			Ala	Cys	Pro
			Ala	Asp	Cys
				Asp	
	385		390		395
			400		
Pro	Asn	Thr	Gln	Ala	Ser
			Cys	Glu	Cys
			Pro	Glu	Gly
			Tyr	Ile	Leu
			Asp		
	405		410		415
Asp	Gly	Phe	Ile	Cys	Met
			Asp	Ile	Asp
			Glu	Cys	Glu
			Asn	Gly	Gly
			Phe	Glu	Cys
			Ile	Cys	
	420		425		430
Cys	Ser	Gly	Val	Cys	His
			Asn	Leu	Pro
			Gly	Thr	Phe
			Glu	Cys	Ile
			Cys		
	435		440		445
Gly	Pro	Asp	Ser	Ala	Leu
			Ala	Arg	His
			Ile	Gly	Thr
			Asp	Cys	Asp
			Ser		
	450		455		460
Gly	Lys	Val	Asp	Gly	Gly
			Asp	Ser	Gly
			Ser	Gly	Glu
			Pro	Pro	Pro
			Ser		
	465		470		475
			480		
Pro	Thr	Pro	Gly	Ser	Thr
			Leu	Thr	Pro
			Pro	Pro	Ala
			Val	Gly	Leu
			Val	His	
	485		490		495
Ser	Gly	Leu	Leu	Ile	Gly
			Ile	Ser	Ile
			Ala	Ser	Leu
			Cys	Leu	Val
			Val		
	500		505		510
Ala	Leu	Leu	Ala	Leu	Leu
			Cys	His	Leu
			Arg	Lys	Lys
			Gln	Gly	Ala
			Ala		
	515		520		525
Arg	Ala	Lys	Met	Glu	Tyr
			Lys	Cys	Ala
			Ala	Pro	Ser
			Lys	Glu	Val
			Val		
	530		535		540
Leu	Gln	His	Val	Arg	Thr
			Glu	Arg	Thr
			Pro	Gln	Arg
			Leu		
	545		550		555

&lt;210&gt; 2864

&lt;211&gt; 740

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2864

Met Ala Ser His Leu Arg Pro Pro Ser Pro Leu Leu Val Arg Val Tyr  
 1 5 10 15  
 Lys Ser Gly Pro Arg Val Arg Arg Lys Leu Glu Ser Tyr Phe Gln Ser  
 20 25 30  
 Ser Lys Ser Ser Gly Gly Gly Glu Cys Thr Val Ser Thr Gln Glu His  
 35 40 45  
 Glu Ala Pro Gly Thr Phe Arg Val Glu Phe Ser Glu Arg Ala Ala Lys  
 50 55 60  
 Glu Arg Val Leu Lys Lys Gly Glu His Gln Ile Leu Val Asp Glu Lys  
 65 70 75 80  
 Pro Val Pro Ile Phe Leu Val Pro Thr Glu Asn Ser Ile Lys Lys Asn  
 85 90 95  
 Thr Arg Pro Gln Ile Ser Ser Leu Thr Gln Ser Gln Ala Glu Thr Pro  
 100 105 110  
 Ser Gly Asp Met His Gln His Glu Gly His Ile Pro Asn Ala Val Asp  
 115 120 125  
 Ser Cys Leu Gln Lys Ile Phe Leu Thr Val Thr Ala Asp Leu Asn Cys  
 130 135 140  
 Asn Leu Phe Ser Lys Glu Gln Arg Ala Tyr Ile Thr Thr Leu Cys Pro  
 145 150 155 160  
 Ser Ile Arg Lys Met Glu Gly His Asp Gly Ile Glu Lys Val Cys Gly  
 165 170 175  
 Asp Phe Gln Asp Ile Glu Arg Ile His Gln Phe Leu Ser Glu Gln Phe  
 180 185 190  
 Leu Glu Ser Glu Gln Lys Gln Gln Phe Ser Pro Ser Met Thr Glu Arg  
 195 200 205  
 Lys Pro Leu Ser Gln Gln Glu Arg Asp Ser Cys Ile Ser Pro Ser Glu  
 210 215 220  
 Pro Glu Thr Lys Ala Glu Gln Lys Ser Asn Tyr Phe Glu Val Pro Leu  
 225 230 235 240  
 Pro Tyr Phe Glu Tyr Phe Lys Tyr Ile Cys Pro Asp Lys Ile Asn Ser  
 245 250 255  
 Ile Glu Lys Arg Phe Gly Val Asn Ile Glu Ile Gln Glu Ser Ser Pro  
 260 265 270  
 Asn Met Val Cys Leu Asp Phe Thr Ser Ser Arg Ser Gly Asp Leu Glu



275	280	285
Ala Ala Arg Glu Ser Phe	Ala Ser Glu Phe Gln Lys	Asn Thr Glu Pro
290	295	300
Leu Lys Gln Glu Cys Val	Ser Leu Ala Asp Ser Lys	Gln Ala Asn Lys
305	310	315
Phe Lys Gln Glu Leu Asn	His Gln Phe Thr Lys	Leu Leu Ile Lys Glu
325	330	335
Lys Gly Gly Glu Leu Thr	Leu Leu Gly Thr Gln	Asp Asp Ile Ser Ala
340	345	350
Ala Lys Gln Lys Ile Ser	Glu Ala Phe Val Lys	Ile Pro Val Lys Leu
355	360	365
Phe Ala Ala Asn Tyr Met	Met Asn Val Ile Glu	Val Asp Ser Ala His
370	375	380
Tyr Lys Leu Leu Glu Thr	Glu Leu Leu Gln Glu	Ile Ser Glu Ile Glu
385	390	395
Lys Arg Tyr Asp Ile Cys	Ser Lys Val Ser Glu	Lys Gly Gln Lys Thr
405	410	415
Cys Ile Leu Phe Glu Ser	Lys Asp Lys Gln Val	Asp Leu Ser Val His
420	425	430
Ala Tyr Ala Ser Phe Ile	Asp Ala Phe Gln His	Ala Ser Cys Gln Leu
435	440	445
Met Arg Glu Val Leu Leu	Leu Lys Ser Leu Gly	Lys Glu Arg Lys His
450	455	460
Leu His Gln Thr Lys Phe	Ala Asp Asp Phe Arg	Lys Arg His Pro Asn
465	470	475
Val His Phe Val Leu Asn	Gln Glu Ser Met Thr	Leu Thr Gly Leu Pro
485	490	495
Asn His Leu Ala Lys Ala	Lys Gln Tyr Val Leu	Lys Gly Gly Gly Met
500	505	510
Ser Ser Leu Ala Gly Lys	Lys Leu Lys Glu Gly	His Glu Thr Pro Met
515	520	525
Asp Ile Asp Ser Asp Asp	Ser Lys Ala Ala Ser	Pro Pro Leu Lys Gly
530	535	540
Ser Val Ser Ser Glu Ala	Ser Glu Leu Asp Lys	Lys Glu Lys Gly Ile
545	550	555
Cys Val Ile Cys Met Asp	Thr Ile Ser Asn Lys	Lys Val Leu Pro Lys

565 570 575  
 Cys Lys His Glu Phe Cys Ala Pro Cys Ile Asn Lys Ala Met Ser Tyr  
 580 585 590  
 Lys Pro Ile Cys Pro Thr Cys Gln Thr Ser Tyr Gly Ile Gln Lys Gly  
 595 600 605  
 Asn Gln Pro Glu Gly Ser Met Val Phe Thr Val Ser Arg Asp Ser Leu  
 610 615 620  
 Pro Gly Tyr Glu Ser Phe Gly Thr Ile Val Ile Thr Tyr Ser Met Lys  
 625 630 635 640  
 Ala Gly Ile Gln Thr Glu Glu His Pro Asn Pro Gly Lys Arg Tyr Pro  
 645 650 655  
 Gly Ile Gln Arg Thr Ala Tyr Leu Pro Asp Asn Lys Glu Gly Arg Lys  
 660 665 670  
 Val Leu Lys Leu Leu Tyr Arg Ala Phe Asp Gln Lys Leu Ile Phe Thr  
 675 680 685  
 Val Gly Tyr Ser Arg Val Leu Gly Val Ser Asp Val Ile Thr Trp Asn  
 690 695 700  
 Asp Ile His His Lys Thr Ser Arg Phe Gly Gly Pro Glu Met Tyr Gly  
 705 710 715 720  
 Tyr Pro Asp Pro Ser Tyr Leu Lys Arg Val Lys Glu Glu Leu Lys Ala  
 725 730 735  
 Lys Gly Ile Glu  
 740

<210> 2865

<211> 221

<212> PRT

<213> Homo sapiens

<400> 2865

Met Leu Cys Ser Val Ser Leu Val Ala Ala Pro Gly Ser Ser Arg Ser  
 1 5 10 15  
 Ser Asp Pro Gly Lys Gly Ser Gly Pro Pro Pro Ala Asn Thr His Pro  
 20 25 30  
 Gln Lys Gln Gln Gln Gln Ala Arg Pro Val His Gly Ala Ala Gly

35	40	45
Gly Thr Cys Pro His Arg Pro Pro Pro Ala Ala Ala Leu Asp Phe Gln		
50	55	60
Leu Gly Pro Leu Cys Gly Leu Met Gly Leu Arg Cys Ala Ala Leu Gln		
65	70	75
Arg Pro Pro Cys Pro Pro Glu Leu Ala Ala Ala Arg Leu Ala Leu Ala		
85	90	95
Ala Gly Gly Arg Gly Trp Val Lys Pro Val Leu Arg Pro Arg Leu Arg		
100	105	110
Pro Ala Gln Pro Ala His Pro Arg Asn Arg Ala Arg Pro Leu Cys Arg		
115	120	125
Leu Gly Val Gly Ser Arg Gly Lys Gly Arg Ala Cys Gly Ser Pro His		
130	135	140
Pro Ala Ala Leu Leu Pro Ala Leu Ser Leu Arg Ala Ser His Pro Ser		
145	150	155
Arg Pro Gly Thr Gln Phe Pro Ala Arg Ala Thr Ala Arg Pro Ser Arg		
165	170	175
Met Leu Trp Ala Arg Gly Pro Gly Arg Pro His Cys Gly Ser Cys Ser		
180	185	190
Ser Pro Ala Ala Ala Arg His Arg Val His Ser Leu Thr His Leu Pro		
195	200	205
Pro Pro Leu Ala Ser Pro Ser Pro Trp Ser Leu Ala Pro		
210	215	220

&lt;210&gt; 2866

&lt;211&gt; 477

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2866

Met Gly Ala Arg Gly Leu Gly Gly Gly Ser Arg Val Met Cys Leu Thr
1 5 10 15
Ser Ala Pro Ser Leu Cys Cys Ser Phe Thr Trp Ser Ala Ala Arg Thr
20 25 30
Asp Arg Asn Val Ile Ser Val Leu Ser Gly Gln Val Val Glu Met Phe

35	40	45
Asp Arg Gln Phe Gln Glu Leu Tyr Leu Met Ser His Ser Val Ser Leu		
50	55	60
Lys Gly Ile Pro Met Glu Lys Glu Pro Glu Pro Glu Pro Ile Val Leu		
65	70	75
Pro Ser Val Val Pro Leu Val Pro Ala Gly Thr Val Ala Lys Lys Leu		
85	90	95
Val Asn Pro Lys Tyr Ala Leu Val Lys Ala Lys Ser Val Asp Glu Ile		
100	105	110
Ala Lys Ile Ser Ser Glu Lys Gln Glu Ala Lys Lys Pro Leu Gly Leu		
115	120	125
Lys Gly Pro Ala Leu Ala Glu His Pro Gly Glu Leu Pro Glu Leu Leu		
130	135	140
Pro Pro Ile His Pro Gly Leu Leu His Leu Glu Arg Ala Asn Met Phe		
145	150	155
Glu Tyr Leu Pro Thr Trp Val Glu Pro Asp Pro Glu Pro Gly Ser Asp		
165	170	175
Ile Leu Gly Tyr Ile Asn Ile Ile Asp Pro Asn Ile Trp Asn Pro Gln		
180	185	190
Pro Ser Gln Met Asn Arg Ile Lys Ile Arg Asp Thr Ser Gln Ala Ser		
195	200	205
Ala Gln His Gln Leu Trp Lys Gln Ser Gln Asp Ser Arg Pro Arg Pro		
210	215	220
Glu Pro Cys Pro Pro Pro Glu Pro Ser Ala Pro Gln Asp Gly Val Pro		
225	230	235
Ala Glu Asn Gly Leu Pro Gln Gly Asp Pro Glu Pro Leu Pro Pro Val		
245	250	255
Pro Lys Pro Arg Thr Val Pro Val Ala Asp Val Leu Ala Arg Asp Ser		
260	265	270
Ser Asp Ile Gly Trp Val Leu Glu Leu Pro Lys Glu Glu Ala Pro Gln		
275	280	285
Asn Gly Thr Asp His Arg Leu Pro Arg Met Ala Gly Pro Gly His Ala		
290	295	300
Pro Leu Gln Arg Gln Leu Ser Val Thr Gln Asp Asp Pro Glu Ser Leu		
305	310	315
Gly Val Gly Leu Pro Asn Gly Leu Asp Gly Val Glu Glu Glu Asp Asp		

325 330 335  
 Asp Asp Tyr Val Thr Leu Ser Asp Gln Asp Ser His Ser Gly Ser Ser  
 340 345 350  
 Gly Arg Gly Pro Gly Pro Arg Arg Pro Ser Val Ala Ser Ser Val Ser  
 355 360 365  
 Glu Glu Tyr Phe Glu Val Arg Glu His Ser Val Pro Leu Arg Arg Arg  
 370 375 380  
 His Ser Glu Gln Val Ala Asn Gly Pro Thr Pro Pro Pro Arg Arg Gln  
 385 390 395 400  
 Leu Ser Ala Pro His Ile Thr Arg Gly Thr Phe Val Gly Pro Gln Gly  
 405 410 415  
 Gly Ser Pro Trp Ala Gln Ser Arg Gly Arg Glu Glu Ala Asp Ala Leu  
 420 425 430  
 Lys Arg Met Gln Ala Gln Arg Ser Thr Asp Lys Glu Ala Gln Val Gly  
 435 440 445  
 Gln Gly Pro Cys Thr Pro Gly Val Thr Ser Pro Ser Leu Pro Ala Thr  
 450 455 460  
 Gln Glu Leu Glu Leu Leu Ser Ser Gly Leu Pro Cys Pro  
 465 470 475

<210> 2867

<211> 216

<212> PRT

<213> Homo sapiens

<400> 2867

Met Thr Ala Ser Arg Ala Trp Asp Met Gly Gly Arg Ser Ala Arg Arg  
 1 5 10 15  
 Asn Ser Ser Arg Ser Ser Val Pro Leu Pro Leu Arg Ser His Phe Leu  
 20 25 30  
 His Thr Pro Ser Ala Ser Ala Trp Ser Ser Thr Ser Pro Ser Leu Ala  
 35 40 45  
 Arg Pro Cys Arg Asn Ser Ser Ala Ser Arg Asp Leu Leu Pro Ser Arg  
 50 55 60  
 Ser Ser Trp Arg Lys Asn Leu Ala Arg Pro Trp Met Pro Glu Ala Pro

65                      70                      75                      80  
 Arg Asp Arg His Cys Ala Arg Ser Phe Ser Met Val Ala Ser Thr Ala  
                             85                      90                      95  
 Ser Met Leu Gly Leu Gly Ser Gly Gln Leu Ala Cys Val Cys Pro Arg  
                             100                      105                      110  
 Val Leu Pro Ala Gly Pro Cys Val Ser Cys Val Val Pro Gly Glu Thr  
                             115                      120                      125  
 Val Ala Ser Gly Arg Cys Leu Trp Arg Trp Gly Gly Ala Gln Leu His  
                             130                      135                      140  
 Glu Cys Thr Val Leu Gly Ser Gly Glu Trp Gly Arg Asp Gly Cys Ala  
 145                      150                      155                      160  
 Gln Pro Asp Cys Leu Leu Asn Cys Gln Pro His Arg Ala Trp Asp Arg  
                             165                      170                      175  
 Ala Arg Ser Leu Trp His Cys Ile Pro Ser Trp Leu Gln Gly Gly Gly  
                             180                      185                      190  
 Ala Gly His Cys Pro Ala Gly Ala Glu Met Pro Trp Met Glu Thr Ser  
                             195                      200                      205  
 Pro Trp Leu Gly Arg Leu Asp Ala  
                             210                      215

<210> 2868

<211> 842

<212> PRT

<213> Homo sapiens

<400> 2868

Met Trp Ala Gln Leu Leu Leu Gly Met Leu Ala Leu Ser Pro Ala Ile  
   1                      5                      10                      15  
 Ala Glu Glu Leu Pro Asn Tyr Leu Val Thr Leu Pro Ala Arg Leu Asn  
                             20                      25                      30  
 Phe Pro Ser Val Gln Lys Val Cys Leu Asp Leu Ser Pro Gly Tyr Ser  
                             35                      40                      45  
 Asp Val Lys Phe Thr Val Thr Leu Glu Thr Lys Asp Lys Thr Gln Lys  
                             50                      55                      60

Leu Leu Glu Tyr Ser Gly Leu Lys Lys Arg His Leu His Cys Ile Ser  
 65                                70                                75                                80  
 Phe Leu Val Pro Pro Pro Ala Gly Gly Thr Glu Glu Val Ala Thr Ile  
                               85                                90                                95  
 Arg Val Ser Gly Val Gly Asn Asn Ile Ser Phe Glu Glu Lys Lys Lys  
                               100                                105                                110  
 Val Leu Ile Gln Arg Gln Gly Asn Gly Thr Phe Val Gln Thr Asp Lys  
                               115                                120                                125  
 Pro Leu Tyr Thr Ser Gly Gln Gln Val Tyr Phe Arg Ile Val Thr Met  
                               130                                135                                140  
 Asp Ser Asn Phe Val Pro Val Asn Asp Lys Tyr Ser Met Val Glu Leu  
 145                                150                                155                                160  
 Gln Asp Pro Asn Ser Asn Arg Ile Ala Gln Trp Leu Glu Val Val Pro  
                               165                                170                                175  
 Glu Gln Gly Ile Val Asp Leu Ser Phe Gln Leu Ala Pro Glu Ala Met  
                               180                                185                                190  
 Leu Gly Thr Tyr Thr Val Ala Val Ala Glu Gly Lys Thr Phe Gly Thr  
                               195                                200                                205  
 Phe Ser Val Glu Glu Tyr Val Leu Pro Lys Phe Lys Val Glu Val Val  
                               210                                215                                220  
 Glu Pro Lys Glu Leu Ser Thr Val Gln Glu Ser Phe Leu Val Lys Ile  
 225                                230                                235                                240  
 Cys Cys Arg Tyr Thr Tyr Gly Lys Pro Met Leu Gly Ala Val Gln Val  
                               245                                250                                255  
 Ser Val Cys Gln Lys Ala Asn Thr Tyr Trp Tyr Arg Glu Val Glu Arg  
                               260                                265                                270  
 Glu Gln Leu Pro Asp Lys Cys Arg Asn Leu Ser Gly Gln Thr Asp Lys  
                               275                                280                                285  
 Thr Gly Cys Phe Ser Ala Pro Val Asp Met Ala Thr Phe Asp Leu Ile  
                               290                                295                                300  
 Gly Tyr Ala Tyr Ser His Gln Ile Asn Val Val Ala Thr Val Val Glu  
 305                                310                                315                                320  
 Glu Gly Thr Gly Val Glu Ala Asn Ala Thr Gln Asn Ile Tyr Ile Ser  
                               325                                330                                335  
 Pro Gln Met Gly Ser Met Thr Phe Glu Asp Thr Ser Asn Phe Tyr His  
                               340                                345                                350

Pro Asn Phe Pro Phe Ser Gly Lys Ile Arg Val Arg Gly His Asp Asp  
 355 360 365  
 Ser Phe Leu Lys Asn His Leu Val Phe Leu Val Ile Tyr Gly Thr Asn  
 370 375 380  
 Gly Thr Phe Asn Gln Thr Leu Val Thr Asp Asn Asn Gly Leu Ala Pro  
 385 390 395 400  
 Phe Thr Leu Glu Thr Ser Gly Trp Asn Gly Thr Asp Val Ser Leu Glu  
 405 410 415  
 Gly Lys Phe Gln Met Glu Asp Leu Val Tyr Asn Pro Glu Gln Val Pro  
 420 425 430  
 Arg Tyr Tyr Gln Asn Ala Tyr Leu His Leu Arg Pro Phe Tyr Ser Thr  
 435 440 445  
 Thr Arg Ser Phe Leu Gly Ile His Arg Leu Asn Gly Pro Leu Lys Cys  
 450 455 460  
 Gly Gln Pro Gln Glu Val Leu Ala Asp Tyr Tyr Ile Asp Pro Ala Asp  
 465 470 475 480  
 Ala Ser Pro Asp Gln Glu Ile Ser Phe Ser Tyr Tyr Leu Ile Gly Lys  
 485 490 495  
 Gly Ser Leu Val Met Glu Gly Gln Lys His Leu Asn Ser Lys Lys Lys  
 500 505 510  
 Gly Leu Lys Ala Ser Phe Ser Leu Ser Leu Thr Phe Thr Ser Arg Leu  
 515 520 525  
 Ala Pro Asp Pro Ser Leu Val Ile Tyr Ala Ile Phe Pro Ser Gly Gly  
 530 535 540  
 Val Val Ala Asp Lys Ile Gln Phe Ser Val Glu Met Cys Phe Asp Asn  
 545 550 555 560  
 Gln Val Ser Leu Gly Phe Ser Pro Ser Gln Gln Leu Pro Gly Ala Glu  
 565 570 575  
 Val Glu Leu Gln Leu Gln Ala Ala Pro Gly Ser Leu Cys Ala Leu Arg  
 580 585 590  
 Ala Val Asp Glu Ser Val Leu Leu Leu Arg Pro Asp Arg Glu Leu Ser  
 595 600 605  
 Asn Arg Ser Val Tyr Gly Met Phe Pro Phe Trp Tyr Gly His Tyr Pro  
 610 615 620  
 Tyr Gln Val Ala Glu Tyr Asp Gln Cys Pro Val Ser Gly Pro Trp Asp  
 625 630 635 640



Phe Pro Gln Pro Leu Ile Asp Pro Met Pro Gln Gly His Ser Ser Gln  
                     645                    650                    655  
 Arg Ser Ile Ile Trp Arg Pro Ser Phe Ser Glu Gly Thr Asp Leu Phe  
                     660                    665                    670  
 Ser Phe Phe Arg Asp Val Gly Leu Lys Ile Leu Ser Asn Ala Lys Ile  
                     675                    680                    685  
 Lys Lys Pro Val Asp Cys Ser His Arg Ser Pro Glu Tyr Ser Thr Ala  
                     690                    695                    700  
 Met Gly Ala Gly Gly Gly His Pro Glu Ala Phe Glu Ser Ser Thr Pro  
 705                    710                    715                    720  
 Leu His Gln Ala Glu Asp Ser Gln Val Arg Gln Tyr Leu Pro Glu Thr  
                     725                    730                    735  
 Trp Leu Trp Asp Leu Phe Pro Ile Gly Asn Ser Gly Lys Glu Ala Val  
                     740                    745                    750  
 His Val Thr Val Pro Asp Ala Ile Thr Glu Trp Lys Ala Met Ser Phe  
                     755                    760                    765  
 Cys Thr Ser Gln Ser Arg Gly Phe Gly Leu Ser Pro Thr Val Gly Leu  
                     770                    775                    780  
 Thr Ala Phe Lys Pro Phe Phe Val Asp Leu Thr Leu Pro Tyr Ser Val  
 785                    790                    795                    800  
 Val Arg Gly Glu Ser Phe Arg Leu Thr Ala Thr Ile Phe Asn Tyr Leu  
                     805                    810                    815  
 Lys Asp Cys Ile Arg Val Gln Thr Asp Leu Ala Lys Ser His Glu Tyr  
                     820                    825                    830  
 Gln Leu His Cys Trp Arg Trp Glu Arg Met  
                     835                    840

<210> 2869

<211> 236

<212> PRT

<213> Homo sapiens

<400> 2869

Met Leu Pro Asp Cys Leu Ser Ala Glu Gly Glu Leu Arg Cys Arg Arg

1	5	10	15
Leu Leu Ala Gly Ala Thr Ala Arg Leu Arg Ala Arg Pro Ala Ser Ala			
20	25	30	
Ala Val Leu Val Pro Leu Cys Ser Val Arg Gly Val Pro Ala Leu Leu			
35	40	45	
Tyr Thr Leu Arg Ser Ser Arg Leu Thr Gly Arg His Lys Gly Asp Val			
50	55	60	
Ser Phe Pro Gly Gly Lys Cys Asp Pro Ala Asp Gln Asp Val Val His			
65	70	75	80
Thr Ala Leu Arg Glu Thr Arg Glu Glu Leu Gly Leu Ala Val Pro Glu			
85	90	95	
Glu His Val Trp Gly Leu Leu Arg Pro Val Tyr Asp Pro Gln Lys Ala			
100	105	110	
Thr Val Val Pro Val Leu Ala Gly Val Gly Pro Leu Asp Pro Gln Ser			
115	120	125	
Leu Arg Pro Asn Ser Glu Glu Val Asp Glu Val Phe Ala Leu Pro Leu			
130	135	140	
Ala His Leu Leu Gln Thr Gln Asn Gln Gly Tyr Thr His Phe Cys Arg			
145	150	155	160
Gly Gly His Phe Arg Tyr Thr Leu Pro Val Phe Leu His Gly Pro His			
165	170	175	
Arg Val Trp Gly Leu Thr Ala Val Ile Thr Glu Phe Ala Leu Gln Leu			
180	185	190	
Leu Ala Pro Gly Thr Tyr Gln Pro Arg Leu Ala Gly Leu Thr Cys Ser			
195	200	205	
Gly Ala Glu Gly Leu Ala Arg Pro Lys Gln Pro Leu Ala Ser Pro Cys			
210	215	220	
Gln Ala Ser Ser Thr Pro Gly Leu Asn Lys Gly Leu			
225	230	235	

&lt;210&gt; 2870

&lt;211&gt; 715

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2870

Met Glu Glu Asn Ser Lys Lys Asp His Arg Ala Leu Leu Asn Gln Gly  
 1 5 10 15  
 Glu Glu Asp Glu Leu Glu Val Phe Gly Tyr Arg Asp His Asn Val Arg  
 20 25 30  
 Lys Ala Phe Cys Leu Val Ala Ser Val Leu Thr Cys Gly Gly Leu Leu  
 35 40 45  
 Leu Val Phe Tyr Trp Arg Pro Gln Trp Arg Val Trp Ala Asn Cys Ile  
 50 55 60  
 Pro Cys Pro Leu Gln Glu Ala Asp Thr Val Leu Leu Arg Thr Thr Asp  
 65 70 75 80  
 Glu Phe Gln Arg Tyr Met Arg Lys Lys Val Phe Cys Leu Tyr Leu Tyr  
 85 90 95  
 Thr Leu Lys Phe Pro Val Ser Lys Lys Trp Glu Glu Ser Leu Val Ala  
 100 105 110  
 Asp Arg His Ser Val Ile Asn Gln Ala Leu Ile Lys Pro Glu Leu Lys  
 115 120 125  
 Leu Arg Cys Met Glu Val Gln Lys Ile Arg Tyr Val Trp Asn Asp Leu  
 130 135 140  
 Glu Lys Arg Phe Gln Lys Val Gly Leu Leu Glu Asp Ser Asn Ser Cys  
 145 150 155 160  
 Ser Asp Ile His Gln Thr Phe Gly Leu Gly Leu Thr Ser Glu Glu Gln  
 165 170 175  
 Glu Val Arg Arg Leu Val Cys Gly Pro Asn Ala Ile Glu Val Glu Ile  
 180 185 190  
 Gln Pro Ile Trp Lys Leu Leu Val Lys Gln Val Leu Asn Pro Phe Tyr  
 195 200 205  
 Val Phe Gln Ala Phe Thr Leu Thr Leu Trp Leu Ser Gln Gly Tyr Ile  
 210 215 220  
 Glu Tyr Ser Val Ala Ile Ile Ile Leu Thr Val Ile Ser Ile Val Leu  
 225 230 235 240  
 Ser Val Tyr Asp Leu Arg Gln Gln Ser Val Lys Leu His Asn Leu Val  
 245 250 255  
 Glu Asp His Asn Lys Val Gln Val Thr Ile Ile Val Lys Asp Lys Gly  
 260 265 270

Leu Glu Glu Leu Glu Ser Arg Leu Leu Val Pro Gly Asp Ile Leu Ile  
 275 280 285  
 Leu Pro Gly Lys Phe Ser Leu Pro Cys Asp Ala Val Leu Ile Asp Gly  
 290 295 300  
 Ser Cys Val Val Asn Glu Gly Met Leu Thr Gly Glu Ser Ile Pro Val  
 305 310 315 320  
 Thr Lys Thr Pro Leu Pro Gln Met Glu Asn Thr Met Pro Trp Lys Cys  
 325 330 335  
 His Ser Leu Glu Asp Tyr Arg Lys His Val Leu Phe Cys Gly Thr Glu  
 340 345 350  
 Val Ile Gln Val Glu Pro Ser Gly Gln Gly Pro Val Arg Ala Val Val  
 355 360 365  
 Leu Gln Thr Gly Tyr Asn Thr Ala Lys Gly Asp Leu Val Arg Ser Ile  
 370 375 380  
 Leu Tyr Pro Arg Pro Leu Asn Phe Lys Leu Tyr Ser Asp Ala Phe Lys  
 385 390 395 400  
 Phe Ile Val Phe Leu Ala Cys Leu Gly Val Met Gly Phe Phe Tyr Ala  
 405 410 415  
 Leu Gly Val Tyr Met Tyr His Gly Val Pro Pro Lys Asp Thr Val Thr  
 420 425 430  
 Met Ala Leu Ile Leu Leu Thr Val Thr Val Pro Pro Val Leu Pro Ala  
 435 440 445  
 Ala Leu Thr Ile Gly Asn Val Tyr Ala Gln Lys Arg Leu Lys Lys Lys  
 450 455 460  
 Lys Ile Phe Cys Ile Ser Pro Gln Arg Ile Asn Met Cys Gly Gln Ile  
 465 470 475 480  
 Asn Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr Glu Asp Gly Leu  
 485 490 495  
 Asp Leu Trp Gly Thr Val Pro Thr Ala Asp Asn Cys Phe Gln Glu Ala  
 500 505 510  
 His Ser Phe Ala Ser Gly Gln Ala Val Pro Trp Ser Pro Leu Cys Ala  
 515 520 525  
 Ala Met Ala Ser Cys His Ser Leu Ile Leu Leu Asn Gly Thr Ile Gln  
 530 535 540  
 Gly Asp Pro Leu Asp Leu Lys Met Phe Glu Gly Thr Ala Trp Lys Met  
 545 550 555 560

Glu Asp Cys Ile Val Asp Ser Cys Lys Phe Gly Thr Ser Val Ser Asn  
                   565                  570                  575  
 Ile Ile Lys Pro Gly Pro Lys Ala Ser Lys Ser Pro Val Glu Ala Ile  
                   580                  585                  590  
 Ile Thr Leu Cys Gln Phe Pro Phe Ser Ser Ser Leu Gln Arg Met Ser  
                   595                  600                  605  
 Val Ile Ala Gln Leu Ala Gly Glu Asn His Phe His Val Tyr Met Lys  
                   610                  615                  620  
 Gly Ala Pro Glu Met Val Ala Arg Phe Cys Arg Ser Glu Thr Val Pro  
 625                  630                  635                  640  
 Lys Asn Phe Pro Gln Glu Leu Arg Ser Tyr Thr Val Gln Gly Phe Arg  
                   645                  650                  655  
 Val Ile Ala Leu Ala His Lys Thr Leu Lys Met Gly Asn Leu Ser Glu  
                   660                  665                  670  
 Val Glu His Leu Ala Arg Glu Lys Val Glu Ser Glu Leu Thr Phe Leu  
                   675                  680                  685  
 Gly Leu Leu Tyr Val Lys Gln Gln Pro Trp Tyr Cys Glu Val Tyr Gln  
                   690                  695                  700  
 Tyr Ser Glu Cys Phe Leu Ala Asn Gln Ser Pro  
 705                  710                  715

<210> 2871

<211> 681

<212> PRT

<213> Homo sapiens

<400> 2871

Met Glu Ser Met Leu Asn Lys Leu Lys Ser Thr Val Thr Lys Val Thr  
   1                  5                  10                  15  
 Ala Asp Val Thr Ser Ala Val Met Gly Asn Pro Val Thr Arg Glu Phe  
                   20                  25                  30  
 Asp Val Gly Arg His Ile Ala Ser Gly Gly Asn Gly Leu Ala Trp Lys  
                   35                  40                  45  
 Ile Phe Asn Gly Thr Lys Lys Ser Thr Lys Gln Glu Val Ala Val Phe  
                   50                  55                  60

Val Phe Asp Lys Lys Leu Ile Asp Lys Tyr Gln Lys Phe Glu Lys Asp			
65	70	75	80
Gln Ile Ile Asp Ser Leu Lys Arg Gly Val Gln Gln Leu Thr Arg Leu			
	85	90	95
Arg His Pro Arg Leu Leu Thr Val Gln His Pro Leu Glu Glu Ser Arg			
	100	105	110
Asp Cys Leu Ala Phe Cys Thr Glu Pro Val Phe Ala Ser Leu Ala Asn			
	115	120	125
Val Leu Gly Asn Trp Glu Asn Leu Pro Ser Pro Ile Ser Pro Asp Ile			
	130	135	140
Lys Asp Tyr Lys Leu Tyr Asp Val Glu Thr Lys Tyr Gly Leu Leu Gln			
145	150	155	160
Val Ser Glu Gly Leu Ser Phe Leu His Ser Ser Val Lys Met Val His			
	165	170	175
Gly Asn Ile Thr Pro Glu Asn Ile Ile Leu Asn Lys Ser Gly Ala Trp			
	180	185	190
Lys Ile Met Gly Phe Asp Phe Cys Val Ser Ser Thr Asn Pro Ser Glu			
	195	200	205
Gln Glu Pro Lys Phe Pro Cys Lys Glu Trp Asp Pro Asn Leu Pro Ser			
	210	215	220
Leu Cys Leu Pro Asn Pro Glu Tyr Leu Ala Pro Glu Tyr Ile Leu Ser			
225	230	235	240
Val Ser Cys Glu Thr Ala Ser Asp Met Tyr Ser Leu Gly Thr Val Met			
	245	250	255
Tyr Ala Val Phe Asn Lys Gly Lys Pro Ile Phe Glu Val Asn Lys Gln			
	260	265	270
Asp Ile Tyr Lys Ser Phe Ser Arg Gln Leu Asp Gln Leu Ser Arg Leu			
	275	280	285
Gly Ser Ser Ser Leu Thr Asn Ile Pro Glu Glu Val Arg Glu His Val			
	290	295	300
Lys Leu Leu Leu Asn Val Thr Pro Thr Val Arg Pro Asp Ala Asp Gln			
305	310	315	320
Met Thr Lys Ile Pro Phe Phe Asp Asp Val Gly Ala Val Thr Leu Gln			
	325	330	335
Tyr Phe Asp Thr Leu Phe Gln Arg Asp Asn Leu Gln Lys Ser Gln Phe			
	340	345	350

Phe Lys Gly Leu Pro Lys Val Leu Pro Lys Leu Pro Lys Arg Val Ile  
 355 360 365  
 Val Gln Arg Ile Leu Pro Cys Leu Thr Ser Glu Phe Val Asn Pro Asp  
 370 375 380  
 Met Val Pro Phe Val Leu Pro Asn Val Leu Leu Ile Ala Glu Glu Cys  
 385 390 395 400  
 Thr Lys Glu Glu Tyr Val Lys Leu Ile Leu Pro Glu Leu Gly Pro Val  
 405 410 415  
 Phe Lys Gln Gln Glu Pro Ile Gln Ile Leu Leu Ile Phe Leu Gln Lys  
 420 425 430  
 Met Asp Leu Leu Leu Thr Lys Thr Pro Pro Asp Glu Ile Lys Asn Ser  
 435 440 445  
 Val Leu Pro Met Val Tyr Arg Ala Leu Glu Ala Pro Ser Ile Gln Ile  
 450 455 460  
 Gln Glu Leu Cys Leu Asn Ile Ile Pro Thr Phe Ala Asn Leu Ile Asp  
 465 470 475 480  
 Tyr Pro Ser Met Lys Asn Ala Leu Ile Pro Arg Ile Lys Asn Ala Cys  
 485 490 495  
 Leu Gln Thr Ser Ser Leu Ala Val Arg Val Asn Ser Leu Val Cys Leu  
 500 505 510  
 Gly Lys Ile Leu Glu Tyr Leu Asp Lys Trp Phe Val Leu Asp Asp Ile  
 515 520 525  
 Leu Pro Phe Leu Gln Gln Ile Pro Ser Lys Glu Pro Ala Val Leu Met  
 530 535 540  
 Gly Ile Leu Gly Ile Tyr Lys Cys Thr Phe Thr His Lys Lys Leu Gly  
 545 550 555 560  
 Ile Thr Lys Glu Gln Leu Ala Gly Lys Val Leu Pro His Leu Ile Pro  
 565 570 575  
 Leu Ser Ile Glu Asn Asn Leu Asn Leu Asn Gln Leu Asn Ser Phe Ile  
 580 585 590  
 Ser Val Ile Lys Glu Met Leu Asn Arg Leu Glu Ser Glu His Lys Thr  
 595 600 605  
 Lys Leu Glu Gln Leu His Ile Met Gln Glu Gln Gln Lys Ser Leu Asp  
 610 615 620  
 Ile Gly Asn Gln Met Asn Val Ser Glu Glu Met Lys Val Thr Asn Ile  
 625 630 635 640

Gly Asn Gln Gln Ile Asp Lys Val Phe Asn Asn Ile Gly Ala Asp Leu  
                                 645                                650                                655  
 Leu Thr Gly Ser Glu Ser Glu Asn Lys Glu Asp Gly Leu Gln Asn Lys  
                                 660                                665                                670  
 His Lys Arg Ala Ser Leu Thr Leu Glu  
                                 675                                680

<210> 2872

<211> 412

<212> PRT

<213> Homo sapiens

<400> 2872

Met Gly Val Trp Thr Gly Arg Leu Gly Gly Trp Ala Gln Val Met Phe  
   1                                5                                10                                15  
 Gln Phe Leu Ser Gln Gly Phe Tyr Cys Gly Val Gly Leu Phe Thr Arg  
                                 20                                25                                30  
 Phe Leu Lys Leu Leu Gly Ala Leu Leu Leu Ala Leu Ala Leu Phe  
                                 35                                40                                45  
 Leu Gly Phe Leu Gln Leu Gly Trp Arg Phe Leu Val Gly Leu Gly Asp  
                                 50                                55                                60  
 Arg Leu Gly Trp Arg Asp Lys Ala Thr Trp Leu Phe Ser Trp Leu Asp  
   65                                70                                75                                80  
 Ser Pro Ala Leu Gln Arg Cys Leu Thr Leu Leu Arg Asp Ser Arg Pro  
                                 85                                90                                95  
 Trp Gln Arg Leu Val Arg Ile Val Gln Trp Gly Trp Leu Glu Leu Pro  
                                 100                                105                                110  
 Trp Val Lys Gln Asn Ile Asn Arg Gln Gly Asn Ala Pro Val Ala Ser  
                                 115                                120                                125  
 Gly Arg Tyr Cys Gln Pro Glu Glu Glu Val Ala Arg Leu Leu Thr Met  
                                 130                                135                                140  
 Ala Gly Val Pro Glu Asp Glu Leu Asn Pro Phe His Val Leu Gly Val  
   145                                150                                155                                160  
  
 Glu Ala Thr Ala Ser Asp Val Glu Leu Lys Lys Ala Tyr Arg Gln Leu



	165		170		175
Ala Val Met Val His Pro Asp Lys Asn His His Pro Arg Ala Glu Glu					
	180		185		190
Ala Phe Lys Val Leu Arg Ala Ala Trp Asp Ile Val Ser Asn Ala Glu					
	195		200		205
Lys Arg Lys Glu Tyr Glu Met Lys Arg Met Ala Glu Asn Glu Leu Ser					
	210		215		220
Arg Ser Val Asn Glu Phe Leu Ser Lys Leu Gln Asp Asp Leu Lys Glu					
225		230		235	240
Ala Met Asn Thr Met Met Cys Ser Arg Cys Gln Gly Lys His Arg Arg					
	245		250		255
Phe Glu Met Asp Arg Glu Leu Lys Ser Ala Arg Tyr Cys Ala Glu Cys					
	260		265		270
Asn Arg Leu His Pro Ala Glu Glu Gly Asp Phe Trp Ala Glu Ser Ser					
	275		280		285
Met Leu Gly Leu Lys Ile Thr Tyr Phe Ala Leu Met Asp Gly Lys Val					
	290		295		300
Tyr Asp Ile Thr Glu Trp Ala Gly Cys Gln Arg Val Gly Ile Ser Pro					
305		310		315	320
Asp Thr His Arg Val Pro Tyr His Ile Ser Phe Gly Ser Arg Ile Pro					
	325		330		335
Gly Thr Arg Gly Arg Gln Arg Ala Thr Pro Asp Ala Pro Pro Ala Asp					
	340		345		350
Leu Gln Asp Phe Leu Ser Arg Ile Phe Gln Val Pro Pro Gly Gln Met					
	355		360		365
Pro Asn Gly Asn Phe Phe Ala Ala Pro Gln Pro Ala Pro Gly Ala Ala					
	370		375		380
Ala Ala Ser Lys Pro Asn Ser Thr Val Pro Lys Gly Glu Ala Lys Pro					
385		390		395	400
Lys Arg Arg Lys Lys Val Arg Arg Pro Phe Gln Arg					
	405		410		

&lt;210&gt; 2873

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2873

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Met Ala Leu Ala Asn Leu Ser Val Ala Met Ala Val Met Pro Phe Ile
  1             5             10             15
Ser Val Thr Asp Leu Ile Gly Gly Lys Trp Ile Phe Gly His Phe Phe
          20             25             30
Cys Asn Val Phe Ser Val Asn Val Met Cys Cys Thr Ala Trp Ile Leu
          35             40             45
Thr Leu Tyr Val Ile Ser Ile Asp Arg Tyr Leu Gly Ile Met Lys Pro
          50             55             60
Leu Thr Tyr Pro Met Arg Gln Lys Gly Lys Cys Met Thr Lys Met Ile
          65             70             75             80
Leu Ser Val Cys Leu Leu Ser Ala Phe Val Thr Leu Pro Thr Ile Phe
          85             90             95
Gly Arg Ala Gln Asn Val Asn Asp Asp Lys Val Cys Leu Ala Arg Gln
          100             105             110
Gln

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&lt;210&gt; 2874

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2874

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Met His Tyr Lys Gln Val Leu Glu Arg Leu Cys Lys His Leu Pro Pro
  1             5             10             15
Ser His Ala Asp Phe Arg Asp Cys Arg Gly Glu Cys Trp Glu Pro Ala
          20             25             30
Pro Pro Gly Ala His Ala Thr Val Gln Ala Gly Cys Ser Gln Thr Glu
          35             40             45
Pro Ser Gln Gly Gly Ala Pro Arg Val Glu Arg Ser Ala Asp Ala Gly
          50             55             60

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Ser Gln Val Phe Ile Arg Val Gly Ala Gly Phe Tyr Ser Arg Ser Gly  
 65 70 75 80  
 Val Trp Leu His Leu Asp Phe Phe Phe Phe Phe Leu Arg Leu Ser Leu  
 85 90 95  
 Thr Leu Ser Pro Arg Leu Glu Cys Asn Gly Ala Ile Ser Ala His Cys  
 100 105 110  
 Asn Leu His Leu Pro Gly Ser Ser Asp Ser Pro Ala Ser Ala Ser Gly  
 115 120 125  
 Ala Ala Arg Ile Thr Gly Ala Arg His His Ala Arg Leu Ile Phe Val  
 130 135 140  
 Phe Leu Val Glu Thr Gly Phe His Arg Val Gly Gln Ala Gly Leu Glu  
 145 150 155 160  
 Leu Leu Thr Leu

<210> 2875

<211> 370

<212> PRT

<213> Homo sapiens

<400> 2875

Met Phe Glu Thr Glu Ala Asp Glu Lys Arg Glu Met Ala Leu Glu Glu  
 1 5 10 15  
 Gly Lys Gly Pro Gly Ala Glu Asp Ser Pro Pro Ser Lys Glu Pro Ser  
 20 25 30  
 Pro Gly Gln Glu Leu Pro Pro Gly Gln Asp Leu Pro Pro Asn Lys Asp  
 35 40 45  
 Ser Pro Ser Gly Gln Glu Pro Ala Pro Ser Gln Glu Pro Leu Ser Ser  
 50 55 60  
 Lys Asp Ser Ala Thr Ser Glu Gly Ser Pro Pro Gly Pro Asp Ala Pro  
 65 70 75 80  
 Pro Ser Lys Asp Val Pro Pro Cys Gln Glu Pro Pro Pro Ala Gln Asp  
 85 90 95  
 Leu Ser Pro Cys Gln Asp Leu Pro Ala Gly Gln Glu Pro Leu Pro His  
 100 105 110

Gln Asp Pro Leu Leu Thr Lys Asp Leu Pro Ala Ile Gln Glu Ser Pro  
 115 120 125  
 Thr Arg Asp Leu Pro Pro Cys Gln Asp Leu Pro Pro Ser Gln Val Ser  
 130 135 140  
 Leu Pro Ala Lys Ala Leu Thr Glu Asp Thr Met Ser Ser Gly Asp Leu  
 145 150 155 160  
 Leu Ala Ala Thr Gly Asp Pro Pro Ala Ala Pro Arg Pro Ala Phe Val  
 165 170 175  
 Ile Pro Glu Val Arg Leu Asp Ser Thr Tyr Ser Gln Lys Ala Gly Ala  
 180 185 190  
 Glu Gln Gly Cys Ser Gly Asp Glu Glu Asp Ala Glu Glu Ala Glu Glu  
 195 200 205  
 Val Glu Glu Gly Glu Glu Gly Glu Glu Asp Glu Asp Glu Asp Thr Ser  
 210 215 220  
 Asp Asp Asn Tyr Gly Glu Arg Ser Glu Ala Lys Arg Ser Ser Met Ile  
 225 230 235 240  
 Glu Thr Gly Gln Gly Ala Glu Gly Gly Leu Ser Leu Arg Val Gln Asn  
 245 250 255  
 Ser Leu Arg Arg Arg Thr His Ser Glu Gly Ser Leu Leu Gln Glu Pro  
 260 265 270  
 Arg Gly Pro Cys Phe Ala Ser Asp Thr Thr Leu His Cys Ser Asp Gly  
 275 280 285  
 Glu Gly Ala Ala Ser Thr Trp Gly Met Pro Ser Pro Ser Thr Leu Lys  
 290 295 300  
 Lys Glu Leu Gly Arg Asn Gly Gly Ser Met His His Leu Ser Leu Phe  
 305 310 315 320  
 Phe Thr Gly His Arg Lys Met Ser Gly Ala Asp Thr Val Gly Asp Asp  
 325 330 335  
 Asp Glu Ala Ser Arg Lys Arg Lys Ser Lys Asn Leu Tyr Val Gly Lys  
 340 345 350  
 Ile Pro Gly Phe Cys Ala Pro Leu Pro Pro Leu Pro Gln Gly Leu Ser  
 355 360 365  
 Leu Leu  
 370

&lt;210&gt; 2876

&lt;211&gt; 438

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2876

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Met Met Tyr Ala Pro Val Glu Phe Ser Glu Ala Glu Phe Ser Arg Ala
  1             5             10             15
Glu Tyr Gln Arg Lys Gln Gln Phe Trp Asp Ser Val Arg Leu Ala Leu
      20             25             30
Phe Thr Leu Ala Ile Val Ala Ile Ile Gly Ile Ala Ile Gly Ile Val
      35             40             45
Thr His Phe Val Val Glu Asp Asp Lys Ser Phe Tyr Tyr Leu Ala Ser
      50             55             60
Phe Lys Val Thr Asn Ile Lys Tyr Lys Glu Asn Tyr Gly Ile Arg Ser
      65             70             75             80
Ser Arg Glu Phe Ile Glu Arg Ser His Gln Ile Glu Arg Met Met Ser
              85             90             95
Arg Ile Phe Arg His Ser Ser Val Gly Gly Arg Phe Ile Lys Ser His
              100            105            110
Val Ile Lys Leu Ser Pro Asp Glu Gln Gly Val Asp Ile Leu Ile Val
              115            120            125
Leu Ile Phe Arg Tyr Pro Ser Thr Asp Ser Ala Glu Gln Ile Lys Lys
              130            135            140
Lys Ile Glu Lys Ala Leu Tyr Gln Ser Leu Lys Thr Lys Gln Leu Ser
              145            150            155            160
Leu Thr Leu Asn Lys Pro Ser Phe Arg Leu Thr Pro Ile Asp Ser Lys
              165            170            175
Lys Met Arg Asn Leu Leu Asn Ser Arg Cys Gly Ile Arg Met Thr Ser
              180            185            190
Ser Asn Met Pro Leu Pro Ala Ser Ser Ser Thr Gln Arg Ile Val Gln
              195            200            205
Gly Arg Glu Thr Ala Met Glu Gly Glu Trp Pro Trp Gln Ala Ser Leu
              210            215            220
Gln Leu Ile Gly Ser Gly His Gln Cys Gly Ala Ser Leu Ile Ser Asn
              225            230            235            240

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Thr	Trp	Leu	Leu	Thr	Ala	Ala	His	Cys	Phe	Trp	Lys	Asn	Lys	Asp	Pro		
245								250				255					
Thr	Gln	Trp	Ile	Ala	Thr	Phe	Gly	Ala	Thr	Ile	Thr	Pro	Pro	Ala	Val		
260								265				270					
Lys	Arg	Asn	Val	Arg	Lys	Ile	Ile	Leu	His	Glu	Asn	Tyr	His	Arg	Glu		
275								280				285					
Thr	Asn	Glu	Asn	Asp	Ile	Ala	Leu	Val	Gln	Leu	Ser	Thr	Gly	Val	Glu		
290								295				300					
Phe	Ser	Asn	Ile	Val	Gln	Arg	Val	Cys	Leu	Pro	Asp	Ser	Ser	Ile	Lys		
305								310				315				320	
Leu	Pro	Pro	Lys	Thr	Ser	Val	Phe	Val	Thr	Gly	Phe	Gly	Ser	Ile	Val		
325								330				335					
Asp	Asp	Gly	Pro	Ile	Gln	Asn	Thr	Leu	Arg	Gln	Ala	Arg	Val	Glu	Thr		
340								345				350					
Ile	Ser	Thr	Asp	Val	Cys	Asn	Arg	Lys	Asp	Val	Tyr	Asp	Gly	Leu	Ile		
355								360				365					
Thr	Pro	Gly	Met	Leu	Cys	Ala	Gly	Phe	Met	Glu	Gly	Lys	Ile	Asp	Ala		
370								375				380					
Cys	Lys	Gly	Asp	Ser	Gly	Gly	Pro	Leu	Val	Tyr	Asp	Asn	His	Asp	Ile		
385								390				395				400	
Trp	Tyr	Ile	Val	Gly	Ile	Val	Ser	Trp	Gly	Gln	Ser	Cys	Ala	Leu	Pro		
405								410				415					
Lys	Lys	Pro	Gly	Val	Tyr	Thr	Arg	Val	Thr	Lys	Tyr	Arg	Asp	Trp	Ile		
420								425				430					
Ala	Ser	Lys	Thr	Gly	Met												
435																	

&lt;210&gt; 2877

&lt;211&gt; 273

&lt;212&gt; PRT

<213> Homo sapiens

&lt;400&gt; 2877

Met Val Gly Glu Ile Ala Ser Ala Ser Ala Cys Asp His Ala Asn Pro  
1 5 10 15

Gln Leu Ser Asn Pro Ser Pro Phe Gln Thr Leu Gly Leu Asp Leu Val  
                   20                                  25                                  30  
 Leu Glu Cys Val Ala Arg Tyr Gln Pro Lys Gln Arg Ser Met Phe Thr  
                   35                                  40                                  45  
 Phe Val Cys Gly Gln Leu Phe Arg Arg Lys Glu Phe Ser Ser His Phe  
                   50                                  55                                  60  
 Lys Asn Val His Gly Asp Ile His Ala Gly Leu Asn Gly Trp Met Glu  
                   65                                  70                                  75                                  80  
 Gln Arg Cys Pro Leu Ala Tyr Tyr Gly Cys Thr Tyr Ser Gln Arg Arg  
                                   85                                  90                                  95  
 Phe Cys Pro Ser Ile Gln Gly Ala Lys Ile Ile His Asp Arg Gln Leu  
                                   100                                  105                                  110  
 Arg Ser Phe Gly Val Gln Pro Cys Val Ser Thr Val Leu Val Glu Pro  
                   115                                  120                                  125  
 Ala Arg Asn Cys Val Leu Gly Leu His Asn Asp His Leu Ser Ser Leu  
                   130                                  135                                  140  
 Pro Phe Glu Val Leu Gln His Ile Ala Gly Phe Leu Asp Gly Phe Ser  
                   145                                  150                                  155                                  160  
 Leu Cys Gln Leu Ser Cys Val Ser Lys Leu Met Arg Asp Val Cys Gly  
                                   165                                  170                                  175  
 Ser Leu Leu Gln Ser Arg Gly Met Val Ile Leu Gln Trp Gly Lys Arg  
                   180                                  185                                  190  
 Lys Tyr Pro Glu Gly Asn Ser Ser Trp Gln Ile Lys Glu Lys Val Trp  
                   195                                  200                                  205  
 Arg Phe Ser Thr Ala Phe Cys Ser Val Asn Glu Trp Lys Phe Ala Asp  
                   210                                  215                                  220  
 Ile Leu Ser Met Ala Asp His Leu Lys Lys Cys Ser Tyr Asn Val Val  
                   225                                  230                                  235                                  240  
 Glu Lys Arg Glu Glu Ala Ile Pro Leu Pro Cys Met Cys Val Thr Arg  
                                   245                                  250                                  255  
 Glu Leu Thr Lys Glu Gly Arg Ser Leu Arg Ser Val Leu Lys Pro Val  
                   260                                  265                                  270  
 Leu

&lt;210&gt; 2878

&lt;211&gt; 136

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2878

```

Met Ala Gly Trp Gly Leu Val Asp Val Ser Gly Ala Pro Glu Pro Trp
 1             5             10             15
Arg Ile Pro His Gly Ile Pro Leu Pro Ala Leu Ser Gly Leu Cys Gly
      20             25             30
Val Arg Arg Ser Pro Ser Ser Arg Phe Ser Phe Phe Pro Pro Gln Gln
      35             40             45
Arg Asn Trp Arg Lys Asp Ile Lys Leu Ser Ala Val Asp Leu Ser Ala
 50             55             60
Glu Ile Phe Pro Glu Ser Met Val Val Leu Asn Tyr Leu His Val Ser
65             70             75             80
Ser Ile Phe Asn Ser Gly Val Gly Leu Phe Leu Ile Ser Ser Gln Lys
      85             90             95
Cys Ser Ala Leu Gly Glu Gly Thr Ser Pro Leu Ala Cys His Phe Pro
      100            105            110
Gly Val Leu Tyr His Phe Asp Gly Thr Leu Trp Ser Ala Glu Asn Ala
      115            120            125
Leu Ser Trp His Ala Ser Arg Leu
      130            135

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&lt;210&gt; 2879

&lt;211&gt; 103

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2879

```

Met Val Arg His Ser Gly Gly Gly Gly Leu Val Tyr Ile Tyr Asp Leu
 1             5             10             15
Leu Lys Val Phe Gly Ile Phe Arg Glu Val Cys Phe Leu Phe Cys Phe
      20             25             30

```



Leu Arg Leu Met Leu Pro Arg Leu Glu Cys Asn Gly Ala Val Leu Gly  
           35                    40                    45  
 Ser Leu Gln Pro Pro Pro Pro Gly Phe Arg Gly Phe Ser Cys Leu Ser  
           50                    55                    60  
 Phe Pro Gly Ser Trp Asp Tyr Arg Cys Met Pro Pro Cys Pro Ala Asn  
           65                    70                    75                    80  
 Phe Cys Ile Phe Ser Arg Asp Gly Ile Ser Pro Cys Trp Pro Gly Trp  
                     85                    90                    95  
 Ser His Thr Pro Asp Leu Arg  
                     100

<210> 2880

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2880

Met Glu Arg His Met Val Arg Gly Gln Leu Tyr Lys His Phe Asp Leu  
   1                    5                    10                    15  
 Glu Arg Lys Asn Ala Lys Gln Ala Glu Ala Arg Leu Asp Gln Arg Leu  
           20                    25                    30  
 Gln Arg Leu Lys Val Ile Cys Leu Tyr His Val Lys Leu Leu Thr Trp  
           35                    40                    45  
 Glu Gln Arg Gln Leu Gln Lys Glu Leu Gln Arg Leu Gln Gln Glu Thr  
           50                    55                    60  
 Met Lys Lys Lys Phe Ser Ser Tyr Leu Gly Asn Gly Phe Gln Lys Arg  
           65                    70                    75                    80  
 Pro Glu Asp Val Leu Val Phe Ser Pro Gln Gly Arg Gln Lys His Arg  
                     85                    90                    95  
 Ala Pro Gln Ala Lys Lys Met Arg Ala Leu Ala Thr Arg Met Ala Gln  
           100                    105                    110  
 Asp Thr Cys Lys Ser Lys Ser Gln Val Pro Pro Ser His Asp Ala Gly  
           115                    120                    125  
 Leu Lys Asp Pro Met Lys Ser Lys Lys Gln Pro Leu Ser Gln Asn Asn  
           130                    135                    140

Arg Thr Ala Cys Phe Ile Lys Glu Gln Pro Gln Ala Gln Glu Lys Asp  
 145 150 155 160  
 Ser Val Asn Pro Ser Lys Asp Val Asp Pro Ser Lys Gly Ile Ser Val  
 165 170 175  
 Pro Cys Gln Asn Gln Glu Val Ser Thr Asn Thr Ile Glu Gln Gly Pro  
 180 185 190  
 Ser Ser Ser Pro Ala Ser Gly Leu Gln Trp Gly Asp Asn Thr Leu  
 195 200 205

<210> 2881

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2881

Met Asp Val Glu Gly Gly Leu Cys Gly Ala Val Leu Val Ser Trp Val  
 1 5 10 15  
 Cys Pro Leu Pro Pro Phe Leu Leu Leu Ser Ser Trp Thr Phe Ser  
 20 25 30  
 Ala Ile Ala Val Leu Ser Phe Thr Leu His His Leu Asp Gly Met Ala  
 35 40 45  
 Pro Ala Thr Lys His Leu Pro Gly Leu Arg Ser Ala Leu Pro Cys Leu  
 50 55 60  
 Ala Ser Ala Thr Pro Thr Ser Gln Leu Gln Gly Met His Tyr Phe Tyr  
 65 70 75 80  
 Phe Lys Pro Ser Ala Ser Phe Leu Leu Ser Leu Gln Pro Pro Pro His  
 85 90 95  
 Leu His Leu Leu Lys Asn Gly Arg Lys Lys Lys Leu  
 100 105

<210> 2882

<211> 100

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2882

Met Gln Ser Glu Asn Ala Ile Ser Pro Asp Leu Thr Leu Val Phe Asn  
 1 5 10 15  
 Glu Lys Tyr Ile Leu Asn Gln Met Tyr Phe Leu Lys Lys Arg Val His  
 20 25 30  
 Ser Ser Leu Ser Leu Ser Leu Ala Leu Ala Leu Ala Leu Ala Leu Ser  
 35 40 45  
 Thr Gly Ser Leu Ser Leu Ser Phe His Gly Leu Pro Leu Met Pro Ser  
 50 55 60  
 Arg Ser Trp Thr Val Leu Leu Pro Ser Arg Leu Thr Ala Thr Ser Leu  
 65 70 75 80  
 Pro Asp Ser Pro Ala Ser Ala Cys Arg Val Pro Ala Ile Ala Gly Ala  
 85 90 95  
 Cys Arg His Ala  
 100

&lt;210&gt; 2883

&lt;211&gt; 897

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2883

Met Glu Val Ile Cys Tyr Gly Leu Thr Leu Pro Leu Asp Gly Glu Thr  
 1 5 10 15  
 Val Lys Tyr Cys Val Asp Val Tyr Thr Asp Trp Ile Met Ala Leu Val  
 20 25 30  
 Leu Pro Lys Asp Ser Ile Pro Leu Pro Val Ile Lys Glu Pro Asn Gln  
 35 40 45  
 Tyr Val Gln Thr Ile Leu Lys His Leu Gln Asn Leu Phe Val Pro Arg  
 50 55 60  
 Gln Glu Gln Gly Ser Ser Gln Ile Arg Leu Cys Leu Gln Val Leu Arg  
 65 70 75 80  
 Ala Ile Gln Lys Leu Ala Arg Glu Ser Ser Leu Met Ala Arg Glu Thr

	85	90	95
Trp Glu Val Leu Leu Leu Phe Leu Leu Gln Ile Asn Asp Ile Leu Leu			
100	105	110	
Ala Pro Pro Thr Val Gln Gly Gly Ile Ala Glu Asn Leu Ala Glu Lys			
115	120	125	
Leu Ile Gly Val Leu Phe Glu Val Trp Leu Leu Ala Cys Thr Arg Cys			
130	135	140	
Phe Pro Thr Pro Pro Tyr Trp Lys Thr Ala Lys Glu Met Val Ala Asn			
145	150	155	160
Trp Arg His His Pro Ala Val Val Glu Gln Trp Ser Lys Val Ile Cys			
165	170	175	
Ala Leu Thr Ser Arg Leu Leu Arg Phe Thr Tyr Gly Pro Ser Phe Pro			
180	185	190	
Ala Phe Lys Val Pro Asp Glu Asp Ala Ser Leu Ile Pro Pro Glu Met			
195	200	205	
Asp Asn Glu Cys Val Ala Gln Thr Trp Phe Arg Phe Leu His Met Leu			
210	215	220	
Ser Asn Pro Val Asp Leu Ser Asn Pro Ala Ile Ile Ser Ser Thr Pro			
225	230	235	240
Lys Phe Gln Glu Gln Phe Leu Asn Val Ser Gly Met Pro Gln Glu Leu			
245	250	255	
Asn Gln Tyr Pro Cys Leu Lys His Leu Pro Gln Ile Phe Phe Arg Ala			
260	265	270	
Met Arg Gly Ile Ser Cys Leu Val Asp Ala Phe Leu Gly Ile Ser Arg			
275	280	285	
Pro Arg Ser Asp Ser Ala Pro Pro Thr Pro Val Asn Arg Leu Ser Met			
290	295	300	
Pro Gln Ser Ala Ala Val Ser Thr Thr Pro Pro His Asn Arg Arg His			
305	310	315	320
Arg Ala Val Thr Val Asn Lys Ala Thr Met Lys Thr Ser Thr Val Ser			
325	330	335	
Thr Ala His Ala Ser Lys Val Gln His Gln Thr Ser Ser Thr Ser Pro			
340	345	350	
Leu Ser Ser Pro Asn Gln Thr Ser Ser Glu Pro Arg Pro Leu Pro Ala			
355	360	365	
Pro Arg Arg Pro Lys Val Asn Ser Ile Leu Asn Leu Phe Gly Ser Trp			

370	375	380	
Leu Phe Asp Ala Ala Phe Val His Cys Lys Leu His Asn Gly Ile Asn			
385	390	395	400
Arg Asp Ser Ser Met Thr Ala Ile Thr Thr Gln Ala Ser Met Glu Phe			
	405	410	415
Arg Arg Lys Gly Ser Gln Met Ser Thr Asp Thr Met Val Ser Asn Pro			
	420	425	430
Met Phe Asp Ala Ser Glu Phe Pro Asp Asn Tyr Glu Ala Gly Arg Ala			
	435	440	445
Glu Ala Cys Gly Thr Leu Cys Arg Ile Phe Cys Ser Lys Lys Thr Gly			
	450	455	460
Glu Glu Ile Leu Pro Ala Tyr Leu Ser Arg Phe Tyr Met Leu Leu Ile			
465	470	475	480
Gln Gly Leu Gln Ile Asn Asp Tyr Val Cys His Pro Val Leu Ala Ser			
	485	490	495
Val Ile Leu Asn Ser Pro Pro Leu Phe Cys Cys Asp Leu Lys Gly Ile			
	500	505	510
Asp Val Val Val Pro Tyr Phe Ile Ser Ala Leu Glu Thr Ile Leu Pro			
	515	520	525
Asp Arg Glu Leu Ser Lys Phe Lys Ser Tyr Val Asn Pro Thr Glu Leu			
	530	535	540
Arg Arg Ser Ser Ile Asn Ile Leu Leu Ser Leu Leu Pro Leu Pro His			
545	550	555	560
His Phe Gly Thr Val Lys Ser Glu Val Val Leu Glu Gly Lys Phe Ser			
	565	570	575
Asn Asp Asp Ser Ser Ser Tyr Asp Lys Pro Ile Thr Phe Leu Ser Leu			
	580	585	590
Lys Leu Arg Leu Val Asn Ile Leu Ile Gly Ala Leu Gln Thr Glu Thr			
	595	600	605
Asp Pro Asn Asn Thr Gln Met Ile Leu Gly Ala Met Leu Asn Ile Val			
	610	615	620
Gln Asp Ser Ala Leu Leu Glu Ala Ile Gly Cys Gln Met Glu Met Gly			
625	630	635	640
Gly Gly Glu Asn Asn Leu Lys Ser His Ser Arg Thr Asn Ser Gly Ile			
	645	650	655
Ser Ser Ala Ser Gly Gly Ser Thr Glu Pro Thr Thr Pro Asp Ser Glu			

660	665	670
Arg Pro Ala Gln Ala Leu Leu Arg Asp Tyr Ala Leu Asn Thr Asp Ser		
675	680	685
Ala Ala Gly Leu Leu Ile Arg Ser Ile His Leu Val Thr Gln Arg Leu		
690	695	700
Asn Ser Gln Trp Arg Gln Asp Met Ser Ile Ser Leu Ala Ala Leu Glu		
705	710	715
Leu Leu Ser Gly Leu Ala Lys Val Lys Val Met Val Asp Ser Gly Asp		
725	730	735
Arg Lys Arg Ala Ile Ser Ser Val Cys Thr Tyr Ile Val Tyr Gln Cys		
740	745	750
Ser Arg Pro Ala Pro Leu His Ser Arg Asp Leu His Ser Met Ile Val		
755	760	765
Ala Ala Phe Gln Cys Leu Cys Val Trp Leu Thr Glu His Pro Asp Met		
770	775	780
Leu Asp Glu Lys Asp Cys Leu Lys Glu Val Leu Glu Ile Val Glu Leu		
785	790	795
Gly Ile Ser Gly Ser Lys Ser Lys Asn Asn Glu Gln Glu Val Lys Tyr		
805	810	815
Lys Gly Asp Lys Glu Pro Asn Pro Ala Ser Met Arg Val Lys Asp Ala		
820	825	830
Ala Glu Ala Thr Leu Thr Cys Ile Met Gln Leu Leu Gly Ala Phe Pro		
835	840	845
Ser Pro Ser Gly Pro Ala Ser Pro Cys Ser Leu Val Asn Glu Thr Thr		
850	855	860
Leu Ile Lys Tyr Ser Arg Leu Pro Thr Ile Asn Lys Gln Leu Glu Pro		
865	870	875
Glu Phe Tyr Thr Ser Leu Phe Gln Glu Val Gly Leu Lys Asn Cys Ser		
885	890	895
Ser		

&lt;210&gt; 2884

&lt;211&gt; 143

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2884

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Met Lys Ser Arg Leu Arg Arg Ser Gln Met Glu Met Arg Asp Leu Leu
 1             5             10             15
Gly Pro Gly Val Lys Val Thr Phe Val Arg Thr Leu Trp Leu Glu Thr
          20             25             30
Leu Cys Pro Cys Pro Arg Asn Leu Trp Asn Phe Glu Leu Glu Ser Glu
          35             40             45
Asp Leu Gly Tyr Leu Ala Glu Glu Ile Ser Lys Gln Gln Ser Val Gln
          50             55             60
Asp Val Ala Trp Leu Leu Leu Val Val Cys Ala His Ile Cys Glu Gln
          65             70             75             80
Arg His Asp Lys Lys Leu Glu Leu Ile Phe Lys Lys Glu Ala Glu Cys
          85             90             95
Lys Ser Leu Glu Asn Leu Gln Pro Gly His Val Val Glu Lys Lys Lys
          100            105            110
Thr Ile Phe Trp Arg Gly Ile Gln Ala Ser Cys Arg Lys Leu Gln Val
          115            120            125
Thr Arg Ser Lys Met Leu Ile Ala Lys Ile Val Gly Lys Thr Pro
          130            135            140

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<210> 2885

<211> 131

<212> PRT

<213> Homo sapiens

<400> 2885

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Met Ser Lys Arg Tyr Leu Gln Lys Ala Thr Lys Gly Lys Leu Leu Ile
 1             5             10             15
Ile Ile Phe Ile Val Thr Leu Trp Gly Lys Val Val Ser Ser Ala Asn
          20             25             30
His His Lys Ala His His Val Lys Thr Gly Thr Cys Glu Val Val Ala
          35             40             45
Leu His Arg Cys Cys Asn Lys Asn Lys Ile Glu Glu Arg Ser Gln Thr

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50                      55                      60  
 Val Lys Cys Ser Cys Phe Pro Gly Gln Val Ala Gly Thr Thr Arg Ala  
 65                      70                      75                      80  
 Ala Pro Ser Cys Val Asp Ala Ser Ile Val Glu Gln Lys Trp Trp Cys  
                     85                      90                      95  
 His Met Gln Pro Cys Leu Glu Gly Glu Glu Cys Lys Val Leu Pro Asp  
                     100                      105                      110  
 Arg Lys Gly Trp Ser Cys Ser Ser Gly Asn Lys Val Lys Thr Thr Arg  
                     115                      120                      125  
 Val Thr His  
                     130

<210> 2886

<211> 275

<212> PRT

<213> Homo sapiens

<400> 2886

Met Gly Ala Pro His Trp Trp Asp Gln Leu Gln Ala Gly Ser Ser Glu  
 1                      5                      10                      15  
 Val Asp Trp Cys Glu Asp Asn Tyr Thr Ile Val Pro Ala Ile Ala Glu  
                     20                      25                      30  
 Phe Tyr Asn Thr Ile Ser Asn Val Leu Phe Phe Ile Leu Pro Pro Ile  
                     35                      40                      45  
 Cys Met Cys Leu Phe Arg Gln Tyr Ala Thr Cys Phe Asn Ser Gly Ile  
                     50                      55                      60  
 Tyr Leu Ile Trp Thr Leu Leu Val Val Val Gly Ile Gly Ser Val Tyr  
 65                      70                      75                      80  
 Phe His Ala Thr Leu Ser Phe Leu Gly Gln Met Leu Asp Glu Leu Ala  
                     85                      90                      95  
 Val Leu Trp Val Leu Met Cys Ala Leu Ala Met Trp Phe Pro Arg Arg  
                     100                      105                      110  
 Tyr Leu Pro Lys Ile Phe Arg Asn Asp Arg Gly Arg Phe Lys Val Val  
                     115                      120                      125  
 Val Ser Val Leu Ser Ala Val Thr Thr Cys Pro Ala Phe Val Lys Pro



130                      135                      140  
 Ala Ile Asn Asn Ile Ser Leu Met Thr Leu Gly Val Pro Cys Thr Ala  
 145                      150                      155                      160  
 Leu Leu Ile Ala Glu Leu Lys Arg Cys Asp Asn Met Arg Val Phe Lys  
                     165                      170                      175  
 Leu Gly Leu Phe Ser Gly Leu Trp Trp Thr Leu Ala Leu Phe Cys Trp  
                     180                      185                      190  
 Ile Ser Asp Arg Ala Phe Cys Glu Leu Leu Ser Ser Phe Asn Phe Pro  
                     195                      200                      205  
 Tyr Leu His Cys Met Trp His Ile Leu Ile Cys Leu Ala Ala Tyr Leu  
                     210                      215                      220  
 Gly Cys Val Cys Phe Ala Tyr Phe Asp Ala Ala Ser Glu Ile Pro Glu  
 225                      230                      235                      240  
 Gln Gly Pro Val Ile Lys Phe Trp Pro Asn Glu Lys Trp Ala Phe Ile  
                     245                      250                      255  
 Gly Val Pro Tyr Val Ser Leu Leu Cys Ala Asn Lys Lys Ser Ser Val  
                     260                      265                      270  
 Lys Ile Thr  
                     275

<210> 2887

<211> 165

<212> PRT

<213> Homo sapiens

<400> 2887

Met Phe Ser Ala Pro Gly Arg Glu Thr Ala Gly Asp Val Leu Met Leu  
   1                      5                      10                      15  
 Arg Trp Phe Val Gln Gln Pro Thr Ser Cys Ser His Ala Gln Pro Leu  
                     20                      25                      30  
 Pro Pro Pro His Gly Thr Ala Ser Leu Ser Pro Leu Val Pro Ser Cys  
                     35                      40                      45  
 Gly Ser Ala Ala Trp Pro Ser Leu His Tyr Leu Gly Ser Pro Ala Asp  
                     50                      55                      60  
 Ser Gly Cys Ser Arg Gly Gln Arg Ala Leu Pro Ala Val Trp Pro Pro

65                      70                      75                      80  
 Ser Cys Tyr Ser Gln Cys Pro Gln Gly Arg Pro Pro His Pro Val Pro  
                             85                      90                      95  
 Arg Ser Pro Arg Arg Gly Ser Arg Asp Leu Gly Lys Glu Pro Gly Glu  
                             100                      105                      110  
 Glu Ala Ala Pro Trp Pro Ser Pro Cys Asp Ser Arg Leu Tyr Arg His  
                             115                      120                      125  
 Pro Met Pro Arg Thr Pro Leu Ser Ala Ser Ala Gly Cys Asp Pro Ser  
                             130                      135                      140  
 Leu Ile Gln Pro Ser Pro His Pro Thr Pro Pro Gln Gln Gly Cys Val  
 145                      150                      155                      160  
 Thr Pro Phe His Arg  
                             165

<210> 2888

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2888

Met Gly Asn Ser Leu Ser Ile Arg Pro Asp Ser Thr Met Gly Asn Ser  
   1                      5                      10                      15  
 Thr Pro Val Pro Pro Asp Ser Ser Leu Gly Tyr Ile Ile His His Trp  
                             20                      25                      30  
 Asn Gln Phe Asp Pro Asp Thr Leu Lys Gly Lys Cys Ile Ile Phe Phe  
                             35                      40                      45  
 Cys Asn Thr Val Trp Pro His Tyr Glu Leu Pro Ser Pro Gln Gln Trp  
   50                      55                      60  
 Ala Val Ser Gly Ser Leu Asn Tyr Asp Thr Ile Leu Gln Leu Asp Leu  
   65                      70                      75                      80  
 Leu Cys Lys Arg Leu Gly Arg Trp Ser Glu Val Pro Tyr Val Gln Ala  
                             85                      90                      95  
 Leu Val Cys Asp Val Pro Leu Pro Val Ser Met Cys Ser His Cys Ser  
                             100                      105                      110  
 Pro Pro Thr Tyr

115

&lt;210&gt; 2889

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2889

Met Glu His Met Leu Leu Ala Asn His Thr Asp Lys Ala Thr Phe Thr  
   1                  5                  10                  15  
 Gly Thr Gln Arg Gln Arg Ser Cys Ser Gly Ala Ser Val Ser Gln Pro  
                   20                  25                  30  
 Arg Pro Leu Arg Gly Lys Leu Val Gly Tyr Trp Asp Pro His Ser Arg  
           35                  40                  45  
 Leu Leu Ser Arg Gly Arg Ala Leu Gly Ser Val Ser Ala Pro Ser Thr  
           50                  55                  60  
 Pro Arg Gly Arg Gly Trp Lys Ala Thr Phe Asp Gly Cys Ile Leu His  
   65                  70                  75                  80  
 Asp Asp Leu Leu Thr Lys Val His Gly Phe Gln Ser Leu Ile Gly Leu  
                   85                  90                  95  
 Gln Gln His Leu Ala Cys Gly Asp Ser Gly Ser Leu Met Lys Asn Cys  
           100                  105                  110  
 His Asp Val Arg Lys Ser Leu Ser Glu Arg Gly Trp Gly Ala Ala Cys  
           115                  120                  125  
 Trp Gly Gly Gly Gly Val Ala Ser Arg Glu Lys Leu His Pro Leu Ala  
           130                  135                  140  
 Glu Ser Gly Thr  
 145

&lt;210&gt; 2890

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2890

Met Gly Leu Gly Arg Cys Trp Arg Arg Val Leu Val Leu Pro Gly Lys  
 1 5 10 15  
 Val Leu Pro Pro Leu Val Ala Trp Ile Lys Tyr His Phe Cys Lys Ser  
 20 25 30  
 His Tyr Ala Gln Ala Glu Met Ala Phe Pro Ser Ser Gly Leu Pro Cys  
 35 40 45  
 Cys Ser Thr Cys Phe Pro Leu Arg Thr Cys Asp Val Thr Pro Gly Leu  
 50 55 60  
 Cys Pro Ser Pro Gly Lys Thr Gly Asn Pro Phe Arg Ala Gly Gly Val  
 65 70 75 80  
 Pro Val Leu Val Leu Cys Ala Val Thr Pro Ala Gln Cys Leu Ala His  
 85 90 95  
 Thr Arg Trp Leu Cys Arg Cys Pro Ala Ala  
 100 105

&lt;210&gt; 2891

&lt;211&gt; 187

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2891

Met Tyr Met Tyr Leu Lys Asn Ile Ser Leu Cys His Ile Lys His Ala  
 1 5 10 15  
 Phe Phe Pro Cys Val Cys Val Cys Val Phe Ser Gly Gln Met Tyr Gln  
 20 25 30  
 Gln Tyr Gln Gln Gln Ala Gly Tyr Gly Ala Gln Gln Pro Gln Ala Pro  
 35 40 45  
 Pro Gln Gln Pro Gln Gln Tyr Gly Ile Gln Tyr Ser Ala Ser Tyr Ser  
 50 55 60  
 Gln Gln Thr Gly Pro Gln Gln Pro Gln Gln Phe Gln Gly Tyr Gly Gln  
 65 70 75 80  
 Gln Pro Thr Ser Gln Ala Pro Ala Pro Ala Phe Ser Gly Gln Pro Gln  
 85 90 95  
 Gln Leu Pro Ala Gln Pro Pro Gln Gln Tyr Gln Ala Ser Asn Tyr Pro

100	105	110
Ala Gln Thr Tyr Thr Ala Gln Thr Ser Gln Pro Thr Asn Tyr Thr Val		
115	120	125
Ala Pro Ala Ser Gln Pro Gly Met Ala Pro Ser Gln Pro Gly Ala Tyr		
130	135	140
Gln Pro Arg Pro Gly Phe Thr Ser Leu Pro Gly Ser Thr Met Thr Pro		
145	150	155
Pro Pro Ser Gly Pro Asn Pro Tyr Ala Arg Asn Arg Pro Pro Phe Gly		
165	170	175
Gln Gly Tyr Thr Gln Pro Gly Pro Gly Tyr Arg		
180	185	

&lt;210&gt; 2892

&lt;211&gt; 437

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2892

Met Lys Val Asp Arg Thr Lys Leu Lys Lys Thr Pro Thr Glu Ala Pro		
1	5	10
Ala Asp Cys Arg Ala Leu Ile Asp Lys Leu Lys Val Cys Asn Asp Glu		
20	25	30
Gln Leu Leu Leu Glu Leu Gln Gln Ile Lys Thr Trp Asn Ile Gly Lys		
35	40	45
Cys Glu Leu Tyr His Trp Val Asp Leu Leu Asp Arg Phe Asp Gly Ile		
50	55	60
Leu Ala Asp Ala Gly Gln Thr Val Glu Asn Met Ser Trp Met Leu Val		
65	70	75
Cys Asp Arg Pro Glu Arg Glu Gln Leu Lys Met Leu Leu Leu Ala Val		
85	90	95
Leu Asn Phe Thr Ala Leu Leu Ile Glu Tyr Ser Phe Ser Arg His Leu		
100	105	110
Tyr Ser Ser Ile Glu His Leu Thr Thr Leu Leu Ala Ser Ser Asp Met		
115	120	125
Gln Val Val Leu Glu Val Ala Ala Gly Met Ala Ala Ala Met Pro Leu		

130	135	140	
Ala Leu Leu Val Leu Leu Leu Leu Gly Pro Gly Gly Trp Cys Leu Ala			
145	150	155	160
Glu Pro Pro Arg Asp Ser Leu Arg Glu Glu Leu Val Ile Thr Pro Leu			
	165	170	175
Pro Ser Gly Asp Val Ala Ala Thr Phe Gln Phe Arg Thr Arg Trp Asp			
	180	185	190
Ser Glu Leu Gln Arg Glu Gly Val Ser His Tyr Arg Leu Phe Pro Lys			
	195	200	205
Ala Leu Gly Gln Leu Ile Ser Lys Tyr Ser Leu Arg Glu Leu His Leu			
	210	215	220
Ser Phe Thr Gln Gly Phe Trp Arg Thr Arg Tyr Trp Gly Pro Pro Phe			
225	230	235	240
Leu Gln Ala Pro Ser Gly Ala Glu Leu Trp Val Trp Phe Gln Asp Thr			
	245	250	255
Val Thr Asp Val Asp Lys Ser Trp Lys Glu Leu Ser Asn Val Leu Ser			
	260	265	270
Gly Ile Phe Cys Ala Ser Leu Asn Phe Ile Asp Ser Thr Asn Thr Val			
	275	280	285
Thr Pro Thr Ala Ser Phe Lys Pro Leu Gly Leu Ala Asn Asp Thr Asp			
	290	295	300
His Tyr Phe Leu Arg Tyr Ala Val Leu Pro Arg Glu Val Val Cys Thr			
305	310	315	320
Glu Asn Leu Thr Pro Trp Lys Lys Leu Leu Pro Cys Ser Ser Lys Ala			
	325	330	335
Gly Leu Ser Val Leu Leu Lys Ala Asp Arg Leu Phe His Thr Ser Tyr			
	340	345	350
His Ser Gln Ala Val His Ile Arg Pro Val Cys Arg Asn Ala Arg Cys			
	355	360	365
Thr Ser Ile Ser Trp Glu Leu Arg Gln Thr Leu Ser Val Val Phe Asp			
	370	375	380
Ala Phe Ile Thr Gly Gln Gly Lys Lys Asp Trp Ser Leu Phe Arg Met			
385	390	395	400
Phe Ser Arg Thr Leu Thr Glu Pro Cys Pro Leu Ala Ser Glu Ser Arg			
	405	410	415

Val Tyr Val Asp Ile Thr Thr Tyr Asn Gln Pro Cys Leu Cys Val Pro  
 420 425 430  
 Arg Thr Thr Arg His  
 435

<210> 2893

<211> 725

<212> PRT

<213> Homo sapiens

<400> 2893

Met Pro Pro Phe Leu Leu Leu Glu Ala Val Cys Val Phe Leu Phe Ser  
 1 5 10 15  
 Arg Val Pro Pro Ser Leu Pro Leu Gln Glu Val His Val Ser Lys Glu  
 20 25 30  
 Thr Ile Gly Lys Ile Ser Ala Ala Ser Lys Met Met Trp Cys Ser Ala  
 35 40 45  
 Ala Val Asp Ile Met Phe Leu Leu Asp Gly Ser Asn Ser Val Gly Lys  
 50 55 60  
 Gly Ser Phe Glu Arg Ser Lys His Phe Ala Ile Thr Val Cys Asp Gly  
 65 70 75 80  
 Leu Asp Ile Ser Pro Glu Arg Val Arg Val Gly Ala Phe Gln Phe Ser  
 85 90 95  
 Ser Thr Pro His Leu Glu Phe Pro Leu Asp Ser Phe Ser Thr Gln Gln  
 100 105 110  
 Glu Val Lys Ala Arg Ile Lys Arg Met Val Phe Lys Gly Gly Arg Thr  
 115 120 125  
 Glu Thr Glu Leu Ala Leu Lys Tyr Leu Leu His Arg Gly Leu Pro Gly  
 130 135 140  
 Gly Arg Asn Ala Ser Val Pro Gln Ile Leu Ile Ile Val Thr Asp Gly  
 145 150 155 160  
 Lys Ser Gln Gly Asp Val Ala Leu Pro Ser Lys Gln Leu Lys Glu Arg  
 165 170 175  
 Gly Val Thr Val Phe Ala Val Gly Val Arg Phe Pro Arg Trp Glu Glu  
 180 185 190

Leu His Ala Leu Ala Ser Glu Pro Arg Gly Gln His Val Leu Leu Ala  
 195 200 205  
 Glu Gln Val Glu Asp Ala Thr Asn Gly Leu Phe Ser Thr Leu Ser Ser  
 210 215 220  
 Ser Ala Ile Cys Ser Ser Ala Thr Pro Asp Cys Arg Val Glu Ala His  
 225 230 235 240  
 Pro Cys Glu His Arg Thr Leu Glu Met Val Arg Glu Phe Ala Gly Asn  
 245 250 255  
 Ala Pro Cys Trp Arg Gly Ser Arg Arg Thr Leu Ala Val Leu Ala Ala  
 260 265 270  
 His Cys Pro Phe Tyr Ser Trp Lys Arg Val Phe Leu Thr His Pro Ala  
 275 280 285  
 Thr Cys Tyr Arg Thr Thr Cys Pro Gly Pro Cys Asp Ser Gln Pro Cys  
 290 295 300  
 Gln Asn Gly Gly Thr Cys Val Pro Glu Gly Leu Asp Gly Tyr Gln Cys  
 305 310 315 320  
 Leu Cys Pro Leu Ala Phe Gly Gly Glu Ala Asn Cys Ala Leu Lys Leu  
 325 330 335  
 Ser Leu Glu Cys Arg Val Asp Leu Leu Phe Leu Leu Asp Ser Ser Ala  
 340 345 350  
 Gly Thr Thr Leu Asp Gly Phe Leu Arg Ala Lys Val Phe Val Lys Arg  
 355 360 365  
 Phe Val Arg Ala Val Leu Ser Glu Asp Ser Arg Ala Arg Val Gly Val  
 370 375 380  
 Ala Thr Tyr Ser Arg Glu Leu Leu Val Ala Val Pro Val Gly Glu Tyr  
 385 390 395 400  
 Gln Asp Val Pro Asp Leu Val Trp Ser Leu Asp Gly Ile Pro Phe Arg  
 405 410 415  
 Gly Gly Pro Thr Leu Thr Gly Ser Ala Leu Arg Gln Ala Ala Glu Arg  
 420 425 430  
 Gly Phe Gly Ser Ala Thr Arg Thr Gly Gln Asp Arg Pro Arg Arg Val  
 435 440 445  
 Val Val Leu Leu Thr Glu Ser His Ser Glu Asp Glu Val Ala Gly Pro  
 450 455 460  
 Ala Arg His Ala Arg Ala Arg Glu Leu Leu Leu Leu Gly Val Gly Ser  
 465 470 475 480



Glu Ala Val Arg Ala Glu Leu Glu Glu Ile Thr Gly Ser Pro Lys His  
                     485                    490                    495  
 Val Met Val Tyr Ser Asp Pro Gln Asp Leu Phe Asn Gln Ile Pro Glu  
                     500                    505                    510  
 Leu Gln Gly Lys Leu Cys Ser Arg Gln Arg Pro Gly Cys Arg Thr Gln  
                     515                    520                    525  
 Ala Leu Asp Leu Val Phe Met Leu Asp Thr Ser Ala Ser Val Gly Pro  
                     530                    535                    540  
 Glu Asn Phe Ala Gln Met Gln Ser Phe Val Arg Ser Cys Ala Leu Gln  
 545                    550                    555                    560  
 Phe Glu Val Asn Pro Asp Val Thr Gln Val Gly Leu Val Val Tyr Gly  
                     565                    570                    575  
 Ser Gln Val Gln Thr Ala Phe Gly Leu Asp Thr Lys Pro Thr Arg Ala  
                     580                    585                    590  
 Ala Met Leu Arg Ala Ile Ser Gln Ala Pro Tyr Leu Gly Gly Val Gly  
                     595                    600                    605  
 Ser Ala Gly Thr Ala Leu Leu His Ile Tyr Asp Lys Val Met Thr Val  
                     610                    615                    620  
 Gln Arg Gly Ala Arg Pro Gly Val Pro Lys Ala Val Val Val Leu Thr  
 625                    630                    635                    640  
 Gly Gly Arg Gly Ala Glu Asp Ala Ala Val Pro Ala Gln Lys Leu Arg  
                     645                    650                    655  
 Asn Asn Gly Ile Ser Val Leu Val Val Gly Val Gly Pro Val Leu Ser  
                     660                    665                    670  
 Glu Gly Leu Arg Arg Leu Ala Gly Pro Arg Asp Ser Leu Ile His Val  
                     675                    680                    685  
 Ala Ala Tyr Ala Asp Leu Arg Tyr His Gln Asp Val Leu Ile Glu Trp  
                     690                    695                    700  
 Leu Cys Gly Gly Glu Trp Gly Asn Pro His Pro Gln Gly Cys Pro His  
 705                    710                    715                    720  
 Gly Arg Pro Ser Ala  
                     725

&lt;210&gt; 2894

&lt;211&gt; 689

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2894

Met Ser Phe Cys Thr Ser Gln Ser Arg Gly Phe Gly Leu Ser Pro Thr  
 1 5 10 15  
 Val Gly Leu Thr Ala Phe Lys Pro Phe Phe Val Asp Leu Thr Leu Pro  
 20 25 30  
 Tyr Ser Val Val Arg Gly Glu Ser Phe Arg Leu Thr Ala Thr Ile Phe  
 35 40 45  
 Asn Tyr Leu Lys Asp Cys Ile Arg Val Gln Thr Asp Leu Ala Lys Ser  
 50 55 60  
 His Glu Tyr Gln Leu Glu Ser Trp Ala Asp Ser Gln Thr Ser Ser Cys  
 65 70 75 80  
 Leu Cys Ala Asp Glu Ala Lys Thr His His Trp Asn Ile Thr Ala Val  
 85 90 95  
 Lys Leu Gly His Ile Asn Phe Thr Ile Ser Thr Lys Ile Leu Asp Ser  
 100 105 110  
 Asn Glu Pro Cys Gly Gly Gln Lys Gly Phe Val Pro Gln Lys Gly Arg  
 115 120 125  
 Ser Asp Thr Leu Ile Lys Pro Val Leu Val Lys Pro Glu Gly Val Leu  
 130 135 140  
 Val Glu Lys Thr His Ser Ser Leu Leu Cys Pro Lys Gly Lys Val Ala  
 145 150 155 160  
 Ser Glu Ser Val Ser Leu Glu Leu Pro Val Asp Ile Val Pro Asp Ser  
 165 170 175  
 Thr Lys Ala Tyr Val Thr Val Leu Gly Asp Ile Met Gly Thr Ala Leu  
 180 185 190  
 Gln Asn Leu Asp Gly Leu Val Gln Met Pro Ser Gly Cys Gly Glu Gln  
 195 200 205  
 Asn Met Val Leu Phe Ala Pro Ile Ile Tyr Val Leu Gln Tyr Leu Glu  
 210 215 220  
 Lys Ala Gly Leu Leu Thr Glu Glu Ile Arg Ser Arg Ala Val Gly Phe  
 225 230 235 240  
 Leu Glu Ile Gly Tyr Gln Lys Glu Leu Met Tyr Lys His Ser Asn Gly  
 245 250 255

Ser Tyr Ser Ala Phe Gly Glu Arg Asp Gly Asn Gly Asn Thr Trp Leu  
 260 265 270  
 Thr Ala Phe Val Thr Lys Cys Phe Gly Gln Ala Gln Lys Phe Ile Phe  
 275 280 285  
 Ile Asp Pro Lys Asn Ile Gln Asp Ala Leu Lys Trp Met Ala Gly Asn  
 290 295 300  
 Gln Leu Pro Ser Gly Cys Tyr Ala Asn Val Gly Asn Leu Leu His Thr  
 305 310 315 320  
 Ala Met Lys Gly Gly Val Asp Asp Glu Val Ser Leu Thr Ala Tyr Val  
 325 330 335  
 Thr Ala Ala Leu Leu Glu Met Gly Lys Asp Val Asp Asp Pro Met Val  
 340 345 350  
 Ser Gln Gly Leu Trp Cys Leu Lys Asn Ser Ala Thr Ser Thr Thr Asn  
 355 360 365  
 Leu Tyr Thr Gln Ala Leu Leu Ala Tyr Ile Phe Ser Leu Ala Gly Glu  
 370 375 380  
 Met Asp Ile Arg Asn Ile Leu Leu Lys Gln Leu Asp Gln Gln Ala Ile  
 385 390 395 400  
 Ile Ser Gly Glu Ser Ile Tyr Trp Ser Gln Lys Pro Thr Pro Ser Ser  
 405 410 415  
 Asn Ala Ser Pro Trp Ser Glu Pro Ala Ala Val Asp Val Glu Leu Thr  
 420 425 430  
 Ala Tyr Ala Leu Leu Ala Gln Leu Thr Lys Pro Ser Leu Thr Gln Lys  
 435 440 445  
 Glu Ile Ala Lys Ala Thr Ser Ile Val Ala Trp Leu Ala Lys Gln Arg  
 450 455 460  
 Asn Ala Tyr Gly Gly Phe Ser Ser Thr Gln Asp Thr Val Val Ala Leu  
 465 470 475 480  
 Gln Ala Leu Ala Lys Tyr Ala Thr Thr Ala Tyr Val Pro Ser Glu Glu  
 485 490 495  
 Ile Asn Leu Val Val Lys Ser Thr Glu Asn Phe Gln Arg Thr Phe Asn  
 500 505 510  
 Ile Gln Ser Val Asn Arg Leu Val Phe Gln Gln Asp Thr Leu Pro Asn  
 515 520 525  
 Val Pro Gly Met Tyr Thr Leu Glu Ala Ser Gly Gln Gly Cys' Val Tyr  
 530 535 540

Val Gln Thr Val Leu Arg Tyr Asn Ile Leu Pro Pro Thr Asn Met Lys  
 545                      550                      555                      560  
 Thr Phe Ser Leu Ser Val Glu Ile Gly Lys Ala Arg Cys Glu Gln Pro  
                          565                      570                      575  
 Thr Ser Pro Arg Ser Leu Thr Leu Thr Ile His Thr Ser Tyr Val Gly  
                          580                      585                      590  
 Ser Arg Ser Ser Ser Asn Met Ala Ile Val Glu Val Lys Met Leu Ser  
                          595                      600                      605  
 Gly Phe Ser Pro Met Glu Gly Thr Asn Gln Leu Leu Leu Gln Gln Pro  
                          610                      615                      620  
 Leu Val Lys Lys Val Glu Phe Gly Thr Asp Thr Leu Asn Ile Tyr Leu  
 625                      630                      635                      640  
 Asp Glu Leu Ile Lys Asn Thr Gln Thr Tyr Thr Phe Thr Ile Ser Gln  
                          645                      650                      655  
 Ser Val Leu Val Thr Asn Leu Lys Pro Ala Thr Ile Lys Val Tyr Asp  
                          660                      665                      670  
 Tyr Tyr Leu Pro Asp Glu Gln Ala Thr Ile Gln Tyr Ser Asp Pro Cys  
                          675                      680                      685  
 Glu

<210> 2895

<211> 954

<212> PRT

<213> Homo sapiens

<400> 2895

Met Glu Gly Gln Lys His Leu Asn Ser Lys Lys Lys Gly Leu Lys Ala  
 1                      5                      10                      15  
 Ser Phe Ser Leu Ser Leu Thr Phe Thr Ser Arg Leu Ala Pro Asp Pro  
                          20                      25                      30  
 Ser Leu Val Ile Tyr Ala Ile Phe Pro Ser Gly Gly Val Val Ala Asp  
                          35                      40                      45  
 Lys Ile Gln Phe Ser Val Glu Met Cys Phe Asp Asn Gln Val Ser Leu  
                          50                      55                      60

Gly Phe Ser Pro Ser Gln Gln Leu Pro Gly Ala Glu Val Glu Leu Gln  
 65                                70                                75                                80  
 Leu Gln Ala Ala Pro Gly Ser Leu Cys Ala Leu Arg Ala Val Asp Glu  
                               85                                90                                95  
 Ser Val Leu Leu Leu Arg Pro Asp Arg Glu Leu Ser Asn Arg Ser Val  
                               100                                105                                110  
 Tyr Gly Met Phe Pro Phe Trp Tyr Gly His Tyr Pro Tyr Gln Val Ala  
                               115                                120                                125  
 Glu Tyr Asp Gln Cys Pro Val Ser Gly Pro Trp Asp Phe Pro Gln Pro  
                               130                                135                                140  
 Leu Ile Asp Pro Met Pro Gln Gly His Ser Ser Gln Arg Ser Ile Ile  
 145                                150                                155                                160  
 Trp Arg Pro Ser Phe Ser Glu Gly Thr Asp Leu Phe Ser Phe Phe Arg  
                               165                                170                                175  
 Asp Val Gly Leu Lys Ile Leu Ser Asn Ala Lys Ile Lys Lys Pro Val  
                               180                                185                                190  
 Asp Cys Ser His Arg Ser Pro Glu Tyr Ser Thr Ala Met Gly Ala Gly  
                               195                                200                                205  
 Gly Gly His Pro Glu Ala Phe Glu Ser Ser Thr Pro Leu His Gln Ala  
                               210                                215                                220  
 Glu Asp Ser Gln Val Arg Gln Tyr Leu Pro Glu Thr Trp Leu Trp Asp  
 225                                230                                235                                240  
 Leu Phe Pro Ile Gly Asn Ser Gly Lys Glu Ala Val His Val Thr Val  
                               245                                250                                255  
 Pro Asp Ala Ile Thr Glu Trp Lys Ala Met Ser Phe Cys Thr Ser Gln  
                               260                                265                                270  
 Ser Arg Gly Phe Gly Leu Ser Pro Thr Val Gly Leu Thr Ala Phe Lys  
                               275                                280                                285  
 Pro Phe Phe Val Asp Leu Thr Leu Pro Tyr Ser Val Val Arg Gly Glu  
                               290                                295                                300  
 Ser Phe Arg Leu Thr Ala Thr Ile Phe Asn Tyr Leu Lys Asp Cys Ile  
 305                                310                                315                                320  
 Arg Val Gln Thr Asp Leu Ala Lys Ser His Glu Tyr Gln Leu Glu Ser  
                               325                                330                                335  
 Trp Ala Asp Ser Gln Thr Ser Ser Cys Leu Cys Ala Asp Glu Ala Lys  
                               340                                345                                350

Thr His His Trp Asn Ile Thr Ala Val Lys Leu Gly His Ile Asn Phe  
 355 360 365  
 Thr Ile Ser Thr Lys Ile Leu Asp Ser Asn Glu Pro Cys Gly Gly Gln  
 370 375 380  
 Lys Gly Phe Val Pro Gln Lys Gly Arg Ser Asp Thr Leu Ile Lys Pro  
 385 390 395 400  
 Val Leu Val Lys Pro Glu Gly Val Leu Val Glu Lys Thr His Ser Ser  
 405 410 415  
 Leu Leu Cys Pro Lys Gly Lys Val Ala Ser Glu Ser Val Ser Leu Glu  
 420 425 430  
 Leu Pro Val Asp Ile Val Pro Asp Ser Thr Lys Ala Tyr Val Thr Val  
 435 440 445  
 Leu Gly Asp Ile Met Gly Thr Ala Leu Gln Asn Leu Asp Gly Leu Val  
 450 455 460  
 Gln Met Pro Ser Gly Cys Gly Glu Gln Asn Met Val Leu Phe Ala Pro  
 465 470 475 480  
 Ile Ile Tyr Val Leu Gln Tyr Leu Glu Lys Ala Gly Leu Leu Thr Glu  
 485 490 495  
 Glu Ile Arg Ser Arg Ala Val Gly Phe Leu Glu Ile Gly Tyr Gln Lys  
 500 505 510  
 Glu Leu Met Tyr Lys His Ser Asn Gly Ser Tyr Ser Ala Phe Gly Glu  
 515 520 525  
 Arg Asp Gly Asn Gly Asn Thr Trp Leu Thr Ala Phe Val Thr Lys Cys  
 530 535 540  
 Phe Gly Gln Ala Gln Lys Phe Ile Phe Ile Asp Pro Lys Asn Ile Gln  
 545 550 555 560  
 Asp Ala Leu Lys Trp Met Ala Gly Asn Gln Leu Pro Ser Gly Cys Tyr  
 565 570 575  
 Ala Asn Val Gly Asn Leu Leu His Thr Ala Met Lys Gly Gly Val Asp  
 580 585 590  
 Asp Glu Val Ser Leu Thr Ala Tyr Val Thr Ala Ala Leu Leu Glu Met  
 595 600 605  
 Gly Lys Asp Val Asp Asp Pro Met Val Ser Gln Gly Leu Trp Cys Leu  
 610 615 620  
 Lys Asn Ser Ala Thr Ser Thr Thr Asn Leu Tyr Thr Gln Ala Leu Leu  
 625 630 635 640

Ala Tyr Ile Phe Ser Leu Ala Gly Glu Met Asp Ile Arg Asn Ile Leu  
                     645                    650                    655  
 Leu Lys Gln Leu Asp Gln Gln Ala Ile Ile Ser Gly Glu Ser Ile Tyr  
                     660                    665                    670  
 Trp Ser Gln Lys Pro Thr Pro Ser Ser Asn Ala Ser Pro Trp Ser Glu  
                     675                    680                    685  
 Pro Ala Ala Val Asp Val Glu Leu Thr Ala Tyr Ala Leu Leu Ala Gln  
                     690                    695                    700  
 Leu Thr Lys Pro Ser Leu Thr Gln Lys Glu Ile Ala Lys Ala Thr Ser  
 705                    710                    715                    720  
 Ile Val Ala Trp Leu Ala Lys Gln Arg Asn Ala Tyr Gly Gly Phe Ser  
                     725                    730                    735  
 Ser Thr Gln Asp Thr Val Val Ala Leu Gln Ala Pro Ala Lys Tyr Ala  
                     740                    745                    750  
 Thr Thr Ala Tyr Val Pro Ser Glu Glu Ile Asn Leu Val Val Lys Ser  
                     755                    760                    765  
 Thr Glu Asn Phe Gln Arg Thr Phe Asn Ile Gln Ser Val Asn Arg Leu  
                     770                    775                    780  
 Val Phe Gln Gln Asp Thr Leu Pro Asn Val Pro Gly Met Tyr Thr Leu  
 785                    790                    795                    800  
 Glu Ala Ser Gly Gln Gly Cys Val Tyr Val Gln Thr Val Leu Arg Tyr  
                     805                    810                    815  
 Asn Ile Leu Pro Pro Thr Asn Met Lys Thr Phe Ser Leu Ser Val Glu  
                     820                    825                    830  
 Ile Gly Lys Ala Arg Cys Glu Gln Pro Thr Ser Pro Arg Ser Leu Thr  
                     835                    840                    845  
 Leu Thr Ile His Thr Ser Tyr Val Gly Ser Arg Ser Ser Ser Asn Met  
                     850                    855                    860  
 Ala Ile Val Glu Val Lys Met Leu Ser Gly Phe Ser Pro Met Glu Gly  
 865                    870                    875                    880  
 Thr Asn Gln Leu Leu Leu Gln Gln Pro Leu Val Lys Lys Val Glu Phe  
                     885                    890                    895  
 Gly Thr Asp Thr Leu Asn Ile Tyr Leu Asp Glu Leu Ile Lys Asn Thr  
                     900                    905                    910  
 Gln Thr Tyr Thr Phe Thr Ile Ser Gln Ser Val Leu Val Thr Asn Leu  
                     915                    920                    925

Lys Pro Ala Thr Ile Lys Val Tyr Asp Tyr Tyr Leu Pro Asp Glu Gln

930

935

940

Ala Thr Ile Gln Tyr Ser Asp Pro Cys Glu

945

950

<210> 2896

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2896

Met Pro Glu Ser Leu Asn Glu Glu Arg Trp Trp Ile Ser Phe Ser Ala

1

5

10

15

Lys Lys Phe Ala Glu Ala Leu Gly Ser Thr Glu Ala Lys Ala Leu Leu

20

25

30

Tyr Gln Lys Phe Glu Gly His Ala Asn Asp Leu Tyr Val Glu Gly Leu

35

40

45

Pro Glu Asn Ile Pro Phe Arg Ser Pro Ser Trp Tyr Gly Ile Pro Arg

50

55

60

Leu Glu Asn Ile Ile Gln Val Gly Asn Gln Ile Lys Phe Leu Ile Lys

65

70

75

80

Ser Asn Ser Ser Arg Thr Pro Leu Ser Pro Ser Arg Leu Ser Ser Ser

85

90

95

Ser Thr Thr Pro Pro Gln Lys Pro

100

<210> 2897

<211> 754

<212> PRT

<213> Homo sapiens

<400> 2897

Met Arg Ser Gln Asn Pro Glu Lys Ser Ala Arg Ile Pro Asp Ser Ile

1

5

10

15



Ala Val Ile Gln Gln Leu Ser Pro Lys Glu Gln Arg Ala Phe Glu Leu			
20	25	30	
Lys Leu Lys Glu Ile Lys Glu Gln His Lys Asn Phe Glu Asp Phe Tyr			
35	40	45	
Ser Phe Met Ile Met Lys Thr Asn Phe Asn Lys Glu Tyr Ile Glu Asn			
50	55	60	
Val Val Arg Asn Ile Leu Lys Gly Gln Asn Ile Phe Thr Lys Glu Ala			
65	70	75	80
Lys Leu Phe Ser Phe Leu Ala Leu Leu Asn Ser Tyr Val Pro Asp Thr			
85	90	95	
Thr Ile Ser Leu Ser Gln Cys Glu Lys Phe Leu Gly Ile Gly Asn Lys			
100	105	110	
Lys Ala Phe Trp Gly Thr Glu Lys Phe Glu Asp Lys Met Gly Thr Tyr			
115	120	125	
Ser Thr Ile Leu Ile Lys Thr Glu Val Ile Glu Cys Gly Asn Tyr Cys			
130	135	140	
Gly Val Arg Ile Ile His Ser Leu Ile Ala Glu Phe Ser Leu Glu Glu			
145	150	155	160
Leu Lys Lys Ser Tyr His Leu Asn Lys Ser Gln Ile Met Leu Asp Met			
165	170	175	
Leu Thr Glu Ser Leu Phe Phe Asp Thr Gly Met Gly Lys Ser Lys Phe			
180	185	190	
Leu Gln Asp Met His Thr Leu Leu Leu Thr Arg His Arg Asp Glu His			
195	200	205	
Glu Gly Glu Thr Gly Asn Trp Phe Ser Pro Phe Ile Glu Ala Leu His			
210	215	220	
Lys Asp Glu Gly Asn Glu Ala Val Glu Ala Val Leu Leu Glu Ser Ile			
225	230	235	240
His Arg Phe Asn Pro Asn Ala Phe Ile Cys Gln Ala Leu Ala Arg His			
245	250	255	
Phe Tyr Ile Lys Lys Lys Asp Phe Gly Asn Ala Leu Asn Trp Ala Lys			
260	265	270	
Gln Ala Lys Ile Ile Glu Pro Asp Asn Ser Tyr Ile Ser Asp Thr Leu			
275	280	285	
Gly Gln Val Tyr Lys Ser Lys Ile Arg Trp Trp Ile Glu Glu Asn Gly			
290	295	300	

Gly Asn Gly Asn Ile Ser Val Asp Asp Leu Ile Ala Leu Leu Asp Leu  
 305 310 315 320  
 Ala Glu His Ala Ser Ser Ala Phe Lys Glu Ser Gln Gln Gln Ser Glu  
 325 330 335  
 Asp Arg Glu Tyr Glu Val Lys Glu Arg Leu Tyr Pro Lys Ser Lys Arg  
 340 345 350  
 Arg Tyr Asp Thr Tyr Asn Ile Ala Gly Tyr Gln Gly Glu Ile Glu Val  
 355 360 365  
 Gly Leu Tyr Thr Ile Gln Ile Leu Gln Leu Ile Pro Phe Phe Asp Asn  
 370 375 380  
 Lys Asn Glu Leu Ser Lys Arg Tyr Met Val Asn Phe Val Ser Gly Ser  
 385 390 395 400  
 Ser Asp Ile Pro Gly Asp Pro Asn Asn Glu Tyr Lys Leu Ala Leu Glu  
 405 410 415  
 Asn Tyr Ile Pro Tyr Leu Thr Lys Leu Lys Phe Ser Leu Lys Lys Ser  
 420 425 430  
 Phe Asp Phe Phe Asp Glu Tyr Phe Val Leu Leu Lys Pro Arg Asn Asn  
 435 440 445  
 Ile Lys Gln Asn Glu Glu Ala Lys Thr Arg Arg Lys Val Ala Gly Tyr  
 450 455 460  
 Phe Lys Lys Tyr Val Asp Ile Phe Cys Leu Leu Glu Glu Ser Gln Asn  
 465 470 475 480  
 Asn Thr Gly Leu Gly Ser Lys Phe Ser Glu Pro Leu Gln Val Glu Arg  
 485 490 495  
 Cys Arg Arg Asn Leu Val Ala Leu Lys Ala Asp Lys Phe Ser Gly Leu  
 500 505 510  
 Leu Glu Tyr Leu Ile Lys Ser Gln Glu Asp Ala Ile Ser Thr Met Lys  
 515 520 525  
 Cys Ile Val Asn Glu Tyr Thr Phe Leu Leu Glu Gln Cys Thr Val Lys  
 530 535 540  
 Ile Gln Ser Lys Glu Lys Leu Asn Phe Ile Leu Ala Asn Ile Ile Leu  
 545 550 555 560  
 Ser Cys Ile Gln Pro Thr Ser Arg Leu Val Lys Pro Val Glu Lys Leu  
 565 570 575  
 Lys Asp Gln Leu Arg Glu Val Leu Gln Pro Ile Gly Leu Thr Tyr Gln  
 580 585 590

Phe Ser Glu Pro Tyr Phe Leu Ala Ser Leu Leu Phe Trp Pro Glu Asn  
 595 600 605  
 Gln Gln Leu Asp Gln His Ser Glu Gln Met Lys Glu Tyr Ala Gln Ala  
 610 615 620  
 Leu Lys Asn Ser Phe Lys Gly Gln Tyr Lys His Met His Arg Thr Lys  
 625 630 635 640  
 Gln Pro Ile Ala Tyr Phe Phe Leu Gly Lys Gly Lys Arg Leu Glu Arg  
 645 650 655  
 Leu Val His Lys Gly Lys Ile Asp Gln Cys Phe Lys Lys Thr Pro Asp  
 660 665 670  
 Ile Asn Ser Leu Trp Gln Ser Gly Asp Val Trp Lys Glu Glu Lys Val  
 675 680 685  
 Gln Glu Leu Leu Leu Arg Leu Gln Gly Arg Ala Glu Asn Asn Cys Leu  
 690 695 700  
 Tyr Ile Glu Tyr Gly Ile Asn Glu Lys Ile Thr Ile Pro Ile Thr Pro  
 705 710 715 720  
 Ala Phe Leu Gly Gln Leu Arg Ser Gly Arg Ser Ile Glu Lys Val Ser  
 725 730 735  
 Phe Tyr Leu Gly Phe Ser Ile Gly Gly Pro Leu Ala Tyr Asp Ile Glu  
 740 745 750  
 Ile Val

<210> 2898

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2898

Met Val Phe Ala Phe Phe Phe Phe Leu Arg Gln Gly Leu Ala Leu Leu  
 1 5 10 15  
 Pro Arg Leu Glu Cys Asn Asp Thr Ile Ser Ala His Cys Asn Leu Tyr  
 20 25 30  
 Leu Leu Gly Ser Ser His Pro Pro Thr Ser Pro Ser Gln Val Ala Gly  
 35 40 45

Thr Thr Gly Thr His His His Thr Gln Arg Ser Phe Val Leu Tyr Ile  
 50 55 60  
 Glu Met Glu Phe Tyr His Val Ala Gln Thr Gly Leu Glu Leu Leu Ser  
 65 70 75 80  
 Ser Arg Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile Thr Asp  
 85 90 95  
 Val Ser His Arg Ser Arg Pro His Asn Ser Val Phe  
 100 105

<210> 2899

<211> 107

<212> PRT

<213> Homo sapiens

<400> 2899

Met Asp Thr Glu Asp Pro Leu Gln Gly Leu Pro Ile Thr Leu His Arg  
 1 5 10 15  
 Arg Ser Pro Phe Pro Glu Val Arg Leu Leu Ala Arg Gly Gly Val Val  
 20 25 30  
 Leu Cys Pro Ser Lys Leu Pro Ser Ser Pro Asn Val Arg Ser Ser Gly  
 35 40 45  
 Arg Pro Ser Cys Gly Arg Leu Arg Cys Gly Gly Lys Leu Ala Ala Cys  
 50 55 60  
 Pro Leu Ala Arg Ala Ser Arg Gly Leu Ala Leu Gly Gln Ser Arg Leu  
 65 70 75 80  
 Ala Gly Met Val Gln Gly Val Ser Leu Ala Ala Phe Cys Val Ile Trp  
 85 90 95  
 Gly Ala Ala Leu Gln Pro Arg Arg Gly Gly Arg  
 100 105

<210> 2900

<211> 640

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2900

Met Pro Lys Pro Pro Lys Pro Arg Asn Asn Leu Glu Asp Arg Tyr Asn  
 1 5 10 15  
 Pro Gly Ile Gln Gly Arg Arg Glu His Arg Pro Gly Pro Gly Arg Val  
 20 25 30  
 Arg Ala Ala Ser Ser Pro Gly Gly Ser Ala Pro Arg Ala Glu Arg Arg  
 35 40 45  
 Leu Trp Gly Glu Gly Trp Glu Ser Gly Ala Ala Pro His Pro His Ser  
 50 55 60  
 Ser Arg Val Ser Ala Leu Arg Pro Cys Gly Val Val Gly Ala Trp Val  
 65 70 75 80  
 Gly Met Gly Val Cys Gln Arg Thr Arg Ala Pro Trp Lys Glu Lys Ser  
 85 90 95  
 Gln Leu Glu Arg Ala Ala Leu Gly Phe Arg Lys Gly Gly Ser Gly Met  
 100 105 110  
 Phe Ala Ser Gly Trp Asn Gln Thr Val Pro Ile Glu Glu Ala Gly Ser  
 115 120 125  
 Met Ala Ala Leu Leu Leu Leu Pro Leu Leu Leu Leu Pro Leu Leu  
 130 135 140  
 Leu Leu Lys Leu His Leu Trp Pro Gln Leu Arg Trp Leu Pro Ala Asp  
 145 150 155 160  
 Leu Ala Phe Ala Val Arg Ala Leu Cys Cys Lys Arg Ala Leu Arg Ala  
 165 170 175  
 Arg Ala Leu Ala Ala Ala Ala Asp Pro Glu Gly Pro Glu Gly Gly  
 180 185 190  
 Cys Ser Leu Ala Trp Arg Leu Ala Glu Leu Ala Gln Gln Arg Ala Ala  
 195 200 205  
 His Thr Phe Leu Ile His Gly Ser Arg Arg Phe Ser Tyr Ser Glu Ala  
 210 215 220  
 Glu Arg Glu Ser Asn Arg Ala Ala Arg Ala Phe Leu Arg Ala Leu Gly  
 225 230 235 240  
 Trp Asp Trp Gly Pro Asp Gly Gly Asp Ser Gly Glu Gly Ser Ala Gly  
 245 250 255  
 Glu Gly Glu Arg Ala Ala Pro Gly Ala Gly Asp Ala Ala Ala Gly Ser  
 260 265 270

Gly Ala Glu Phe Ala Gly Gly Asp Gly Ala Ala Arg Gly Gly Gly Ala  
 275 280 285  
 Ala Ala Pro Leu Ser Pro Gly Ala Thr Val Ala Leu Leu Leu Pro Ala  
 290 295 300  
 Gly Pro Glu Phe Leu Trp Leu Trp Phe Gly Leu Ala Lys Ala Gly Leu  
 305 310 315 320  
 Arg Thr Ala Phe Val Pro Thr Ala Leu Arg Arg Gly Pro Leu Leu His  
 325 330 335  
 Cys Leu Arg Ser Cys Gly Ala Arg Ala Leu Val Leu Ala Pro Glu Phe  
 340 345 350  
 Leu Glu Ser Leu Glu Pro Asp Leu Pro Ala Leu Arg Ala Met Gly Leu  
 355 360 365  
 His Leu Trp Ala Ala Gly Pro Gly Thr His Pro Ala Gly Ile Ser Asp  
 370 375 380  
 Leu Leu Ala Glu Val Ser Ala Glu Val Asp Gly Pro Val Pro Gly Tyr  
 385 390 395 400  
 Leu Ser Ser Pro Gln Ser Ile Thr Asp Thr Cys Leu Tyr Ile Phe Thr  
 405 410 415  
 Ser Gly Thr Thr Gly Leu Pro Lys Ala Ala Arg Ile Ser His Leu Lys  
 420 425 430  
 Ile Leu Gln Cys Gln Gly Phe Tyr Gln Leu Cys Gly Val His Gln Glu  
 435 440 445  
 Asp Val Ile Tyr Leu Ala Leu Pro Leu Tyr His Met Ser Gly Ser Leu  
 450 455 460  
 Leu Gly Ile Val Gly Cys Met Gly Ile Gly Ala Thr Val Val Leu Lys  
 465 470 475 480  
 Ser Lys Phe Ser Ala Gly Gln Phe Trp Glu Asp Cys Gln Gln His Arg  
 485 490 495  
 Val Thr Val Phe Gln Tyr Ile Gly Glu Leu Cys Arg Tyr Leu Val Asn  
 500 505 510  
  
 Gln Pro Pro Ser Lys Ala Glu Arg Gly His Lys Val Arg Leu Ala Val  
 515 520 525  
 Gly Ser Gly Leu Arg Pro Asp Thr Trp Glu Arg Phe Val Arg Arg Phe  
 530 535 540  
 Gly Pro Leu Gln Val Leu Glu Thr Tyr Gly Leu Thr Glu Gly Asn Val

545                      550                      555                      560  
 Ala Thr Ile Asn Tyr Thr Gly Gln Arg Gly Ala Val Gly Arg Ala Ser  
                          565                      570                      575  
 Trp Leu Tyr Lys His Ile Phe Pro Phe Ser Leu Ile Arg Tyr Asp Val  
                          580                      585                      590  
 Thr Thr Gly Glu Pro Ile Arg Asp Pro Gln Gly His Cys Met Ala Thr  
                          595                      600                      605  
 Ser Pro Gly Glu Pro Gly Leu Leu Val Ala Pro Val Ala Ser Ser Pro  
                          610                      615                      620  
 His Ser Trp Ala Met Leu Ala Gly Gln Ser Trp Pro Arg Gly Ser Cys  
 625                      630                      635                      640

<210> 2901

<211> 437

<212> PRT

<213> Homo sapiens

<400> 2901

Met Thr Thr Glu Gly Phe Asp Val Arg Ser Val Gly Asn Thr Leu Val  
   1                      5                      10                      15  
 Leu His Gln Thr Ala Leu Val Glu Ala Phe Asn Leu Lys Ala Ala Ile  
                          20                      25                      30  
 Glu Tyr Gln Leu Arg Asn Tyr Glu Val Ala Gln Glu Thr Leu Thr Asp  
                          35                      40                      45  
 Met Pro Pro Arg Ala Glu Glu Glu Leu Asp Pro Val Thr Leu His Asn  
                          50                      55                      60  
 Gln Ala Leu Met Asn Met Asp Ala Arg Pro Thr Glu Gly Phe Glu Lys  
   65                      70                      75                      80  
 Leu Gln Phe Leu Leu Gln Gln Asn Pro Phe Pro Pro Glu Thr Phe Gly  
                          85                      90                      95  
 Asn Leu Leu Leu Leu Tyr Cys Lys Tyr Glu Tyr Phe Asp Leu Ala Ala  
                          100                      105                      110  
 Asp Val Leu Ala Glu Asn Ala His Leu Thr Tyr Lys Phe Leu Thr Pro  
                          115                      120                      125  
 Tyr Leu Tyr Asp Phe Leu Asp Ala Leu Ile Thr Cys Gln Thr Ala Pro

130	135	140	
Glu Glu Ala Phe Ile Lys Leu Asp Gly Leu Ala Gly Met Leu Thr Glu			
145	150	155	160
Gln Leu Arg Arg Leu Thr Lys Gln Val Gln Glu Ala Arg His Asn Arg			
165	170	175	
Asp Asp Glu Ala Ile Lys Lys Ala Val Asn Glu Tyr Asp Glu Thr Met			
180	185	190	
Glu Lys Tyr Ile Pro Val Leu Met Ala Gln Ala Lys Ile Tyr Trp Asn			
195	200	205	
Leu Glu Asn Tyr Pro Met Val Glu Lys Ile Phe Arg Lys Ser Val Glu			
210	215	220	
Phe Cys Asn Asp His Asp Val Trp Lys Leu Asn Val Ala His Val Leu			
225	230	235	240
Phe Met Gln Glu Asn Lys Tyr Lys Glu Ala Ile Gly Phe Tyr Glu Pro			
245	250	255	
Ile Val Lys Lys His Tyr Asp Asn Ile Leu Asn Val Ser Ala Ile Val			
260	265	270	
Leu Ala Asn Leu Cys Val Ser Tyr Ile Met Thr Ser Gln Asn Glu Glu			
275	280	285	
Ala Glu Glu Leu Met Arg Lys Ile Glu Lys Glu Glu Glu Gln Leu Ser			
290	295	300	
Tyr Asp Asp Pro Asn Arg Lys Met Tyr His Leu Cys Ile Val Asn Leu			
305	310	315	320
Val Ile Gly Thr Leu Tyr Cys Ala Lys Gly Asn Tyr Glu Phe Gly Ile			
325	330	335	
Ser Arg Val Ile Lys Ser Leu Glu Pro Tyr Asn Lys Lys Leu Gly Thr			
340	345	350	
Asp Thr Trp Tyr Tyr Ala Lys Arg Cys Phe Leu Ser Leu Leu Glu Asn			
355	360	365	
Met Ser Lys His Met Ile Val Ile His Asp Ser Val Ile Gln Glu Cys			
370	375	380	
Val Gln Phe Leu Gly His Cys Glu Leu Tyr Gly Thr Asn Ile Pro Ala			
385	390	395	400
Val Ile Glu Gln Pro Leu Glu Glu Glu Arg Met His Val Gly Lys Asn			
405	410	415	
Thr Val Thr Asp Glu Ser Arg Gln Leu Lys Ala Leu Ile Tyr Glu Ile			



420  
Ile Gly Trp Asn Lys  
435

425

430

&lt;210&gt; 2902

&lt;211&gt; 1036

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2902

Met Asp Asp Pro Ser Pro Cys Gly Thr Ser Glu Met Cys Pro Ala Ala  
1 5 10 15  
Leu Tyr Gly Phe Pro Ser Thr Gly Thr Ser Pro Pro Arg Pro Pro Ala  
20 25 30  
Asn Ser Thr Gly Thr Val Gln His Leu Arg Ser Asp Ser Phe Pro Gly  
35 40 45  
Ser His Arg Thr Glu Gln Thr Pro Asp Leu Val Gly Met Leu Leu Ser  
50 55 60  
Tyr Ser His Ser Glu Leu Pro Gln Arg Pro Pro Lys Pro Ala Ile Tyr  
65 70 75 80  
Ser Ser Val Thr Pro Arg Arg Asp Arg Arg Ser Gly Arg Asp Tyr Ser  
85 90 95  
Thr Val Ser Ala Ser Pro Thr Ala Leu Ser Thr Leu Lys Gln Asp Ser  
100 105 110  
Gln Glu Ser Ile Ser Asn Leu Glu Arg Pro Ser Ser Pro Pro Ser Ile  
115 120 125  
Gln Pro Trp Val Ser Pro His Asn Pro Ala Phe Ala Thr Glu Ser Pro  
130 135 140  
Ala Tyr Gly Ser Ser Pro Ser Phe Val Ser Met Glu Asp Val Arg Ile  
145 150 155 160  
His Glu Pro Leu Pro Pro Pro Pro Gln Arg Arg Asp Thr His Pro  
165 170 175  
Ser Val Val Glu Thr Asp Gly His Ala Arg Val Val Val Pro Thr Leu  
180 185 190  
Lys Gln His Ser His Pro Pro Pro Leu Ala Leu Gly Ser Gly Leu His

195	200	205
Ala Pro His Lys Gly Pro Leu Pro Gln Ala Ser Asp Pro Ala Val Ala		
210	215	220
Arg Gln His Arg Pro Leu Pro Ser Thr Pro Asp Ser Ser His His Ala		
225	230	235
Gln Ala Thr Pro Arg Trp Arg Tyr Asn Lys Pro Leu Pro Pro Thr Pro		
245	250	255
Asp Leu Pro Gln Pro His Leu Pro Pro Ile Ser Ala Pro Gly Ser Ser		
260	265	270
Arg Ile Tyr Arg Pro Leu Pro Pro Leu Pro Ile Ile Asp Pro Pro Thr		
275	280	285
Glu Pro Pro Pro Leu Pro Pro Lys Ser Arg Gly Arg Ser Arg Ser Thr		
290	295	300
Arg Gly Gly His Met Asn Ser Gly Gly His Ala Lys Thr Arg Pro Ala		
305	310	315
Cys Gln Asp Trp Thr Val Pro Leu Pro Ala Ser Ala Gly Arg Thr Ser		
325	330	335
Trp Pro Pro Ala Thr Ala Arg Ser Thr Glu Ser Phe Thr Ser Thr Ser		
340	345	350
Arg Ser Lys Ser Glu Val Ser Pro Gly Met Ala Phe Ser Asn Met Thr		
355	360	365
Asn Phe Leu Cys Pro Ser Ser Pro Thr Thr Pro Trp Thr Pro Glu Leu		
370	375	380
Gln Gly Pro Thr Ser Lys Asp Glu Ala Gly Val Ser Glu His Pro Glu		
385	390	395
Ala Pro Ala Arg Glu Pro Leu Arg Arg Thr Thr Pro Gln Gln Gly Ala		
405	410	415
Ser Gly Pro Gly Arg Ser Pro Val Gly Gln Ala Arg Gln Pro Glu Lys		
420	425	430
Pro Ser His Leu His Leu Glu Lys Ala Ser Ser Trp Pro His Arg Arg		
435	440	445
Asp Ser Gly Arg Pro Pro Gly Asp Ser Ser Gly Gln Ala Val Ala Pro		
450	455	460
Ser Glu Gly Ala Asn Lys His Lys Gly Trp Ser Arg Gln Gly Leu Arg		
465	470	475
Arg Pro Ser Ile Leu Pro Glu Gly Ser Ser Asp Ser Arg Gly Pro Ala		

	485	490	495
Val Glu Lys His Pro Gly Pro Ser Asp Thr Val Val Phe Arg Glu Lys			
500	505	510	
Lys Pro Lys Glu Val Met Gly Gly Phe Ser Arg Arg Cys Ser Lys Leu			
515	520	525	
Ile Asn Ser Ser Gln Leu Leu Tyr Gln Glu Tyr Ser Asp Val Val Leu			
530	535	540	
Asn Lys Glu Ile Gln Ser Gln Gln Arg Leu Glu Ser Leu Ser Glu Thr			
545	550	555	560
Pro Gly Pro Ser Ser Pro Arg Gln Pro Arg Lys Ala Leu Val Ser Ser			
565	570	575	
Glu Ser Tyr Leu Gln Arg Leu Ser Met Ala Ser Ser Gly Ser Leu Trp			
580	585	590	
Gln Glu Ile Pro Val Val Arg Asn Ser Thr Val Leu Leu Ser Met Thr			
595	600	605	
His Glu Asp Gln Lys Leu Gln Glu Val Lys Phe Glu Leu Ile Val Ser			
610	615	620	
Glu Ala Ser Tyr Leu Arg Ser Leu Asn Ile Ala Val Asp His Phe Gln			
625	630	635	640
Leu Ser Thr Ser Leu Arg Ala Thr Leu Ser Asn Gln Glu His Gln Trp			
645	650	655	
Leu Phe Ser Arg Leu Gln Asp Val Arg Asp Val Ser Ala Thr Phe Leu			
660	665	670	
Ser Asp Leu Glu Glu Asn Phe Glu Asn Asn Ile Phe Ser Phe Gln Val			
675	680	685	
Cys Asp Val Val Leu Asn His Ala Pro Asp Phe Arg Arg Val Tyr Leu			
690	695	700	
Pro Tyr Val Thr Asn Gln Thr Tyr Gln Glu Arg Thr Phe Gln Ser Leu			
705	710	715	720
Met Asn Ser Asn Ser Asn Phe Arg Glu Val Leu Glu Lys Leu Glu Ser			
725	730	735	
Asp Pro Val Cys Gln Arg Leu Ser Leu Lys Ser Phe Leu Ile Leu Pro			
740	745	750	
Phe Gln Arg Ile Thr Arg Leu Lys Leu Leu Leu Gln Asn Ile Leu Lys			
755	760	765	
Arg Thr Gln Pro Gly Ser Ser Glu Glu Ala Glu Ala Thr Lys Ala His			

770	775	780	
His Ala Leu Glu Gln Leu Ile Arg Asp Cys Asn Asn Asn Val Gln Ser			
785	790	795	800
Met Arg Arg Thr Glu Glu Leu Ile Tyr Leu Ser Gln Lys Ile Glu Phe			
805	810	815	
Glu Cys Lys Ile Phe Pro Leu Ile Ser Gln Ser Arg Trp Leu Val Lys			
820	825	830	
Ser Gly Glu Leu Thr Ala Leu Glu Phe Ser Ala Ser Pro Gly Leu Arg			
835	840	845	
Arg Lys Leu Asn Thr Arg Pro Val His Leu His Leu Phe Asn Asp Cys			
850	855	860	
Leu Leu Leu Ser Arg Pro Arg Glu Gly Ser Arg Phe Leu Val Phe Asp			
865	870	875	880
His Ala Pro Phe Ser Ser Ile Arg Gly Glu Lys Cys Glu Met Lys Leu			
885	890	895	
His Gly Pro His Lys Asn Leu Phe Arg Leu Phe Leu Arg Gln Asn Thr			
900	905	910	
Gln Gly Ala Gln Ala Glu Phe Leu Phe Arg Thr Glu Thr Gln Ser Glu			
915	920	925	
Lys Leu Arg Trp Ile Ser Ala Leu Ala Met Pro Arg Glu Glu Leu Asp			
930	935	940	
Leu Leu Glu Cys Tyr Asn Ser Pro Gln Val Gln Cys Leu Arg Ala Tyr			
945	950	955	960
Lys Pro Arg Glu Asn Asp Glu Leu Ala Leu Glu Lys Ala Asp Val Val			
965	970	975	
Met Val Thr Gln Gln Ser Ser Asp Gly Trp Leu Glu Gly Val Arg Leu			
980	985	990	
Ser Asp Gly Glu Arg Gly Trp Phe Pro Val Gln Gln Val Glu Phe Ile			
995	1000	1005	
Ser Asn Pro Glu Val Arg Ala Gln Asn Leu Lys Glu Ala His Arg Val			
1010	1015	1020	
Lys Thr Ala Lys Leu Gln Leu Val Glu Gln Gln Ala			
1025	1030	1035	

&lt;211&gt; 233

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2903

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Met Ala Gln Leu Pro His His His Val Pro Glu Pro Ala Phe Arg Lys
  1             5             10             15
Leu Val Glu Asp Ala Leu Gly Arg Thr Ser Asn Gln Leu Arg Ser Phe
      20             25             30
Gln Glu Thr Phe Glu Lys Val Gln Pro Pro Pro Thr Thr Gln Leu Leu
      35             40             45
Leu Pro Gly Ser Glu Arg Gln Val Gln Ala Leu Leu Ser Arg Tyr Gly
      50             55             60
Pro Gly Lys Leu Tyr Gln Val Thr Ser Asn Ile Ser Gly Thr Gly Thr
      65             70             75             80
Leu Asp Leu Thr Leu Pro Arg Gly Gln Ile Val Ala Ile Leu Gln Asn
      85             90             95
Lys Asp Thr Lys Gly Asn Ser Gly Arg Trp Leu Val Asp Thr Gly Gly
      100            105            110
His Arg Gly Tyr Val Pro Ala Gly Lys Leu Gln Leu Tyr His Val Val
      115            120            125
Pro Ser Ala Glu Glu Leu Arg Arg Gln Ala Gly Leu Asn Lys Asp Pro
      130            135            140
Arg Cys Leu Thr Pro Glu Pro Ser Pro Ala Leu Val Pro Ser Ile Pro
      145            150            155            160
Thr Val Asn Gln Val Ile Ala Ala Tyr Pro Phe Val Ala Arg Ser Ser

      165            170            175
His Glu Val Ser Leu Gln Ala Gly Gln Pro Val Thr Ile Leu Glu Ala
      180            185            190
Gln Asp Lys Lys Gly Asn Pro Glu Trp Ser Leu Val Glu Val Asn Gly
      195            200            205
Gln Arg Gly Tyr Val Pro Ser Gly Phe Leu Ala Arg Ala Arg Ser Pro
      210            215            220
Val Leu Trp Gly Trp Ser Leu Pro Ser
      225            230

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&lt;210&gt; 2904

&lt;211&gt; 229

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2904

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Met Phe Ser His Ile Leu Ala Asn Leu Glu Gln Gly Leu Ala Glu Asp
  1             5             10             15
Gly Gly Met Ser Ser Val Thr Gln Glu Gly Arg Gln Ala Ser Ile Arg
      20             25             30
Leu Trp Arg Ser Arg Leu Gly Arg Val Met Tyr Ser Met Ala Asn Cys
      35             40             45
Leu Leu Leu Met Lys Asp Tyr Val Leu Ala Val Glu Ala Tyr His Ser
      50             55             60
Val Ile Lys Tyr Tyr Pro Glu Gln Glu Pro Gln Leu Leu Ser Gly Ile
      65             70             75             80
Gly Arg Ile Ser Leu Gln Ile Gly Asp Ile Lys Thr Ala Glu Lys Tyr
      85             90             95
Phe Gln Asp Val Glu Lys Val Thr Gln Lys Leu Asp Gly Leu Gln Gly
      100            105            110
Lys Ile Met Val Leu Met Asn Ser Ala Phe Leu His Leu Gly Gln Asn
      115            120            125
Asn Phe Ala Glu Ala His Arg Phe Phe Thr Glu Ile Leu Arg Met Asp
      130            135            140
Pro Arg Asn Ala Val Ala Asn Asn Asn Ala Ala Val Cys Leu Leu Tyr
      145            150            155            160
Leu Gly Lys Leu Lys Asp Ser Leu Arg Gln Leu Glu Ala Met Val Gln
      165            170            175
Gln Asp Pro Arg His Tyr Leu His Glu Ser Val Leu Phe Asn Leu Thr
      180            185            190
Thr Met Tyr Glu Leu Glu Ser Ser Arg Ser Met Gln Lys Lys Gln Ala
      195            200            205
Leu Leu Glu Ala Val Ala Gly Lys Glu Gly Asp Ser Phe Asn Thr Gln
      210            215            220

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Cys Leu Lys Leu Ala

225

<210> 2905

<211> 117

<212> PRT

<213> Homo sapiens

<400> 2905

Met Leu Leu Arg Lys Ala Ser Thr Cys Leu Lys Gly Gly Thr Ala Phe

1 5 10 15

Asn Ser Gly His Ser Cys Cys Pro Leu Thr Ser Val Cys Gly Leu Ala

20 25 30

Ala Ala Pro Gly Thr Gln Gln Glu Pro Pro Glu Gly Cys Gly Leu Cys

35 40 45

Gly Gln Arg Asp Ser Leu Gln Leu Pro Pro Cys Pro Pro Ala Leu Arg

50 55 60

Gly Asn Asn Ser Arg Ala Thr Ala Gly Pro Arg Leu Gln Ser His Leu

65 70 75 80

Cys Cys His Asp His Ser Gln Glu Ala Leu Gly Thr Trp Val Trp Lys

85 90 95

Ala Ser Arg Gln Gln Ser Cys Pro Val Ser Leu Gly Met Pro Glu Cys

100 105 110

Arg Asn Ala Asn Val

115

<210> 2906

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2906

Met Cys Met Leu Arg Leu Leu Pro Glu His Gln Asn Gly Asn Ile Arg

1 5 10 15

Val Phe Ile Leu Glu Ser Asn Leu Thr Ile Ile Met Asp Val Val Arg  
                   20                                  25                                  30  
 Leu Phe Lys Lys Ser Met Phe Lys Asp Ile Glu Ser Thr Lys Met Ala  
                   35                                  40                                  45  
 Ile Ser Asp Arg Leu Asp Lys Glu Asn Val Val His Ile His His Gly  
                   50                                  55                                  60  
 Ile Leu Cys Ser Arg Arg Lys Glu Arg Asp His Val Arg Cys Arg Asp  
                   65                                  70                                  75                                  80  
 Met Asp Gly Ala Gly Ser His Tyr Pro Gln Lys Thr Asn Pro Gly Thr  
                                   85                                  90                                  95  
 Glu Lys Gln Thr Pro His Val Leu Thr His Lys Trp Glu Leu Asn Thr  
                   100                                  105                                  110  
 Glu Asn Thr Trp Asn Gln Gly Glu Glu Gln His Thr Leu Arg Pro Ala  
                   115                                  120                                  125  
 Thr Ala Gly Gly Gly Ser Gly Glu Gly Glu His Gln Glu Asn Ser  
                   130                                  135                                  140

<210> 2907

<211> 1035

<212> PRT

<213> Homo sapiens

<400> 2907

Met Val Phe Leu Gln Asn His Val Arg Phe Phe Leu Glu Ser Leu Pro  
                   1                                  5                                  10                                  15  
 Ala Phe Leu Arg Val Leu Ile Gln Ala Gly Ala Leu Cys Trp Ser Leu  
                   20                                  25                                  30  
 Pro Glu Leu Ser Gln Gly Glu Val Gly Lys Gly Ala Cys Pro Ala Glu  
                   35                                  40                                  45  
 Val Gly Lys His Arg Asp His Leu Pro Ser Ser Asp Pro Val Leu Met  
                   50                                  55                                  60  
 Gln Ala Glu Ala Ser Val Val Met Cys Trp Val Ser Ser Glu Asp Arg  
                   65                                  70                                  75                                  80  
 Ser Ala Leu Trp Ala Leu Val Thr Phe Tyr Gly Gly Asp Cys Gln Leu  
                                   85                                  90                                  95



Thr Leu Asn Lys Lys Cys Thr His Leu Ile Val Pro Glu Pro Lys Gly  
 100 105 110  
 Glu Lys Tyr Glu Cys Ala Leu Lys Arg Ala Ser Ile Lys Ile Val Thr  
 115 120 125  
 Pro Asp Trp Val Leu Asp Cys Val Ser Glu Lys Thr Lys Lys Asp Glu  
 130 135 140  
 Ala Phe Tyr His Pro Arg Leu Ile Ile Tyr Glu Glu Glu Glu Glu Glu  
 145 150 155 160  
 Glu Glu Glu Glu Glu Glu Val Glu Asn Glu Glu Gln Asp Ser Gln Asn  
 165 170 175  
 Glu Gly Ser Thr Asp Glu Lys Ser Ser Pro Ala Ser Ser Gln Glu Gly  
 180 185 190  
 Ser Pro Ser Gly Asp Gln Gln Phe Ser Pro Lys Ser Asn Thr Glu Lys  
 195 200 205  
 Ser Lys Gly Glu Leu Met Phe Asp Asp Ser Ser Asp Ser Ser Pro Glu  
 210 215 220  
 Lys Gln Glu Arg Asn Leu Asn Trp Thr Pro Ala Glu Val Pro Gln Leu  
 225 230 235 240  
 Ala Ala Ala Lys Arg Arg Leu Pro Gln Gly Lys Glu Pro Gly Leu Ile  
 245 250 255  
 Asn Leu Cys Ala Asn Val Pro Pro Val Pro Gly Asn Ile Leu Pro Pro  
 260 265 270  
 Glu Val Arg Gly Asn Leu Met Ala Ala Gly Gln Asn Leu Gln Ser Ser  
 275 280 285  
 Glu Arg Ser Glu Met Ile Ala Thr Trp Ser Pro Ala Val Arg Thr Leu  
 290 295 300  
 Arg Asn Ile Thr Asn Asn Ala Asp Ile Gln Gln Met Asn Arg Pro Ser  
 305 310 315 320  
 Asn Val Ala His Ile Leu Gln Thr Leu Ser Ala Pro Thr Lys Asn Leu  
 325 330 335  
 Glu Gln Gln Val Asn His Ser Gln Gln Gly His Thr Asn Ala Asn Ala  
 340 345 350  
 Val Leu Phe Ser Gln Val Lys Val Thr Pro Glu Thr His Met Leu Gln  
 355 360 365  
 Gln Gln Gln Gln Ala Gln Gln Gln Gln Gln Gln His Pro Val Leu His  
 370 375 380

Leu Gln Pro Gln Gln Ile Met Gln Leu Gln Gln Gln Gln Gln Gln  
 385 390 395 400  
 Ile Ser Gln Gln Pro Tyr Pro Gln Gln Pro Pro His Pro Phe Ser Gln  
 405 410 415  
 Gln Gln Gln Gln Gln Gln Gln Ala His Pro His Gln Phe Ser Gln Gln  
 420 425 430  
 Gln Leu Gln Phe Pro Gln Gln Gln Leu His Pro Pro Gln Gln Leu His  
 435 440 445  
 Arg Pro Gln Gln Gln Leu Gln Pro Phe Gln Gln Gln His Ala Leu Gln  
 450 455 460  
 Gln Gln Phe His Gln Leu Gln Gln His Gln Leu Gln Gln Gln Gln Leu  
 465 470 475 480  
 Ala Gln Leu Gln Gln Gln His Ser Leu Leu Gln Gln Gln Gln Gln Gln  
 485 490 495  
 Gln Ile Gln Gln Gln Gln Leu Gln Arg Met His Gln Gln Gln Gln Gln  
 500 505 510  
 Gln Gln Met Gln Ser Gln Thr Ala Pro His Leu Ser Gln Thr Ser Gln  
 515 520 525  
 Ala Leu Gln His Gln Val Pro Pro Gln Gln Pro Pro Gln Gln Gln Gln  
 530 535 540  
 Gln Gln Gln Pro Pro Pro Ser Pro Gln Gln His Gln Leu Phe Gly His  
 545 550 555 560  
 Asp Pro Ala Val Glu Ile Pro Glu Glu Gly Phe Leu Leu Gly Cys Val  
 565 570 575  
 Phe Ala Ile Ala Asp Tyr Pro Glu Gln Met Ser Asp Lys Gln Leu Leu  
 580 585 590  
 Ala Thr Trp Lys Arg Ile Ile Gln Ala His Gly Gly Thr Val Asp Pro  
 595 600 605  
 Thr Phe Thr Ser Arg Cys Thr His Leu Leu Cys Glu Ser Gln Val Ser  
 610 615 620  
 Ser Ala Tyr Ala Gln Ala Ile Arg Glu Arg Lys Arg Cys Val Thr Ala  
 625 630 635 640  
 His Trp Leu Asn Thr Val Leu Lys Lys Lys Lys Met Val Pro Pro His  
 645 650 655  
 Arg Ala Leu His Phe Pro Val Ala Phe Pro Pro Gly Gly Lys Pro Cys  
 660 665 670

Ser Gln His Ile Ile Ser Val Thr Gly Phe Val Asp Ser Asp Arg Asp  
 675 680 685  
 Asp Leu Lys Leu Met Ala Tyr Leu Ala Gly Ala Lys Tyr Thr Gly Tyr  
 690 695 700  
 Leu Cys Arg Ser Asn Thr Val Leu Ile Cys Lys Glu Pro Thr Gly Leu  
 705 710 715 720  
 Lys Tyr Glu Lys Ala Lys Glu Trp Arg Ile Pro Cys Val Asn Ala Gln  
 725 730 735  
 Trp Leu Gly Asp Ile Leu Leu Gly Asn Phe Glu Ala Leu Arg Gln Ile  
 740 745 750  
 Gln Tyr Ser Arg Tyr Thr Ala Phe Ser Leu Gln Asp Pro Phe Ala Pro  
 755 760 765  
 Thr Gln His Leu Val Leu Asn Leu Leu Asp Ala Trp Arg Val Pro Leu  
 770 775 780  
 Lys Val Ser Ala Glu Leu Leu Met Ser Ile Arg Leu Pro Pro Lys Leu  
 785 790 795 800  
 Lys Gln Asn Glu Val Ala Asn Val Gln Pro Ser Ser Lys Arg Ala Arg  
 805 810 815  
 Ile Glu Asp Val Pro Pro Pro Thr Lys Lys Leu Thr Pro Glu Leu Thr  
 820 825 830  
 Pro Phe Val Leu Phe Thr Gly Phe Glu Pro Val Gln Val Gln Gln Tyr  
 835 840 845  
 Ile Lys Lys Leu Tyr Ile Leu Gly Gly Glu Val Ala Glu Ser Ala Gln  
 850 855 860  
 Lys Cys Thr His Leu Ile Ala Ser Lys Val Thr Arg Thr Val Lys Phe  
 865 870 875 880  
 Leu Thr Ala Ile Ser Val Val Lys His Ile Val Thr Pro Glu Trp Leu  
 885 890 895  
 Glu Glu Cys Phe Arg Cys Gln Lys Phe Ile Asp Glu Gln Asn Tyr Ile  
 900 905 910  
 Leu Arg Asp Ala Glu Ala Glu Val Leu Phe Ser Phe Ser Leu Glu Glu  
 915 920 925  
 Ser Leu Lys Arg Ala His Val Ser Pro Leu Phe Lys Ala Lys Tyr Phe  
 930 935 940  
 Tyr Ile Thr Pro Gly Ile Cys Pro Ser Leu Ser Thr Met Lys Ala Ile  
 945 950 955 960

Val Glu Cys Ala Gly Gly Lys Val Leu Ser Lys Gln Pro Ser Phe Arg  
                   965                  970                  975  
 Lys Leu Met Glu His Lys Gln Asn Ser Ser Leu Ser Glu Ile Ile Leu  
                   980                  985                  990  
 Ile Ser Cys Glu Asn Asp Leu His Leu Cys Arg Glu Tyr Phe Ala Arg  
                   995                  1000                  1005  
 Gly Ile Asp Val His Asn Ala Glu Phe Val Leu Thr Gly Val Leu Thr  
                   1010                  1015                  1020  
 Gln Thr Leu Asp Tyr Glu Ser Tyr Lys Phe Asn  
 1025                  1030                  1035

<210> 2908

<211> 1298

<212> PRT

<213> Homo sapiens

<400> 2908

Met Val Glu Leu Gln Asp Pro Asn Ser Asn Arg Ile Ala Gln Trp Leu  
   1                  5                  10                  15  
 Glu Val Val Pro Glu Gln Gly Ile Val Asp Leu Ser Phe Gln Leu Ala  
                   20                  25                  30  
 Pro Glu Ala Met Leu Gly Thr Tyr Thr Val Ala Val Ala Glu Gly Lys  
                   35                  40                  45  
 Thr Phe Gly Thr Phe Ser Val Glu Glu Tyr Val Leu Pro Lys Phe Lys  
                   50                  55                  60  
 Val Glu Val Val Glu Pro Lys Glu Leu Ser Thr Val Gln Glu Ser Phe  
   65                  70                  75                  80  
 Leu Val Lys Ile Cys Cys Arg Tyr Thr Tyr Gly Lys Pro Met Leu Gly  
                   85                  90                  95  
 Ala Val Gln Val Ser Val Cys Gln Lys Ala Asn Thr Tyr Trp Tyr Arg  
                   100                  105                  110  
 Glu Val Glu Arg Glu Gln Leu Pro Asp Lys Cys Arg Asn Leu Ser Gly  
                   115                  120                  125  
 Gln Thr Asp Lys Thr Gly Cys Phe Ser Ala Pro Val Asp Met Ala Thr  
                   130                  135                  140

Phe Asp Leu Ile Gly Tyr Ala Tyr Ser His Gln Ile Asn Ile Val Ala  
 145 150 155 160  
 Thr Val Val Glu Glu Gly Thr Gly Val Glu Ala Asn Ala Thr Gln Asn  
 165 170 175  
 Ile Tyr Ile Ser Pro Gln Met Gly Ser Met Thr Phe Gly Asp Thr Ser  
 180 185 190  
 Asn Phe Tyr His Pro Asn Phe Pro Phe Ser Gly Lys Ile Arg Val Arg  
 195 200 205  
 Gly His Asp Asp Ser Phe Leu Lys Asn His Leu Val Phe Leu Val Ile  
 210 215 220  
 Tyr Gly Thr Asn Gly Thr Phe Asn Gln Thr Leu Val Thr Asp Asn Asn  
 225 230 235 240  
 Gly Leu Ala Pro Phe Thr Leu Glu Thr Ser Gly Trp Asn Gly Thr Asp  
 245 250 255  
 Val Ser Leu Glu Gly Lys Phe Gln Met Glu Asp Leu Val Tyr Asn Pro  
 260 265 270  
 Glu Gln Val Pro Arg Tyr Tyr Gln Asn Ala Tyr Leu His Leu Arg Pro  
 275 280 285  
 Phe Tyr Ser Thr Thr Arg Ser Phe Leu Gly Ile His Arg Leu Asn Gly  
 290 295 300  
 Pro Leu Lys Cys Gly Gln Pro Gln Glu Val Leu Val Asp Tyr Tyr Ile  
 305 310 315 320  
 Asp Pro Ala Asp Ala Ser Pro Asp Gln Glu Ile Ser Phe Ser Tyr Tyr  
 325 330 335  
 Leu Ile Gly Lys Gly Ser Leu Val Met Glu Gly Gln Lys His Leu Asn  
 340 345 350  
 Ser Lys Lys Lys Gly Leu Lys Ala Ser Phe Ser Leu Ser Leu Thr Phe  
 355 360 365  
 Thr Ser Arg Leu Ala Pro Asp Pro Ser Leu Val Ile Tyr Ala Ile Phe  
 370 375 380  
 Pro Ser Gly Gly Val Val Ala Asp Lys Ile Gln Phe Ser Val Glu Met  
 385 390 395 400  
 Cys Phe Asp Asn Gln Val Ser Leu Gly Phe Ser Pro Ser Gln Gln Leu  
 405 410 415  
 Pro Gly Ala Glu Val Glu Leu Gln Leu Gln Ala Ala Pro Gly Ser Leu  
 420 425 430

Cys Ala Leu Arg Ala Val Asp Glu Ser Val Leu Leu Leu Arg Pro Asp  
 435 440 445  
 Arg Glu Leu Ser Asn Arg Ser Val Tyr Gly Met Phe Pro Phe Trp Tyr  
 450 455 460  
 Gly His Tyr Pro Tyr Gln Val Ala Glu Tyr Asp Gln Cys Pro Val Ser  
 465 470 475 480  
 Gly Pro Trp Asp Phe Pro Gln Pro Leu Ile Asp Pro Met Pro Gln Gly  
 485 490 495  
 His Ser Ser Gln Arg Ser Ile Ile Trp Arg Pro Ser Phe Ser Glu Gly  
 500 505 510  
 Thr Asp Leu Phe Ser Phe Phe Arg Asp Val Gly Leu Lys Ile Leu Ser  
 515 520 525  
 Asn Ala Lys Ile Lys Lys Pro Val Asp Cys Ser His Arg Ser Pro Glu  
 530 535 540  
 Tyr Ser Thr Ala Met Gly Ala Gly Gly Gly His Pro Glu Ala Phe Glu  
 545 550 555 560  
 Ser Ser Thr Pro Leu His Gln Ala Glu Asp Ser Gln Val Arg Gln Tyr  
 565 570 575  
 Leu Pro Glu Thr Trp Leu Trp Asp Leu Phe Pro Ile Gly Asn Ser Gly  
 580 585 590  
 Lys Glu Ala Val His Val Thr Val Pro Asp Ala Ile Thr Glu Trp Lys  
 595 600 605  
 Ala Met Ser Phe Cys Thr Ser Gln Ser Arg Gly Phe Gly Leu Ser Pro  
 610 615 620  
 Thr Val Gly Leu Thr Ala Phe Lys Pro Phe Phe Val Asp Leu Thr Leu  
 625 630 635 640  
 Pro Tyr Ser Val Val Arg Gly Glu Ser Phe Arg Leu Thr Ala Thr Ile  
 645 650 655  
 Phe Asn Tyr Leu Lys Asp Cys Ile Arg Val Gln Thr Asp Leu Ala Lys  
 660 665 670  
 Ser His Glu Tyr Gln Leu Glu Ser Trp Ala Asp Ser Gln Thr Ser Ser  
 675 680 685  
 Cys Leu Cys Ala Asp Glu Ala Lys Thr His His Trp Asn Ile Thr Ala  
 690 695 700  
 Val Lys Leu Gly His Ile Asn Phe Thr Ile Ser Thr Lys Ile Leu Asp  
 705 710 715 720

Ser Asn Glu Pro Cys Gly Gly Gln Lys Gly Phe Val Pro Gln Lys Gly  
                     725                    730                    735  
 Arg Ser Asp Thr Leu Ile Lys Pro Val Leu Val Lys Pro Glu Gly Val  
                     740                    745                    750  
 Leu Val Glu Lys Thr His Ser Ser Leu Leu Cys Pro Lys Gly Lys Val  
                     755                    760                    765  
 Ala Ser Glu Ser Val Ser Leu Glu Leu Pro Val Asp Ile Val Pro Asp  
                     770                    775                    780  
 Ser Thr Lys Ala Tyr Val Thr Val Leu Gly Asp Ile Met Gly Thr Ala  
  
 785                    790                    795                    800  
 Leu Gln Asn Leu Asp Gly Leu Val Gln Met Pro Ser Gly Cys Gly Glu  
                     805                    810                    815  
 Gln Asn Met Val Leu Phe Ala Pro Ile Ile Tyr Val Leu Gln Tyr Leu  
                     820                    825                    830  
 Glu Lys Ala Gly Leu Leu Thr Glu Glu Ile Arg Ser Arg Ala Val Gly  
                     835                    840                    845  
 Phe Leu Glu Ile Gly Tyr Gln Lys Glu Leu Met Tyr Lys His Ser Asn  
                     850                    855                    860  
 Gly Ser Tyr Ser Ala Phe Gly Glu Arg Asp Gly Asn Gly Asn Thr Trp  
 865                    870                    875                    880  
 Leu Thr Ala Phe Val Thr Lys Cys Phe Gly Gln Ala Gln Lys Phe Ile  
                     885                    890                    895  
 Phe Ile Asp Pro Lys Asn Ile Gln Asp Ala Leu Lys Trp Met Ala Gly  
                     900                    905                    910  
 Asn Gln Leu Pro Ser Gly Cys Tyr Ala Asn Val Gly Asn Leu Leu His  
                     915                    920                    925  
 Thr Ala Met Lys Gly Gly Val Asp Asp Glu Val Ser Leu Thr Ala Tyr  
                     930                    935                    940  
 Val Thr Ala Ala Leu Leu Glu Met Gly Lys Asp Val Asp Asp Pro Met  
 945                    950                    955                    960  
 Val Ser Gln Gly Leu Trp Cys Leu Lys Asn Ser Ala Thr Ser Thr Thr  
                     965                    970                    975  
 Asn Leu Tyr Thr Gln Ala Leu Leu Ala Tyr Ile Phe Ser Leu Ala Gly  
                     980                    985                    990  
 Glu Met Asp Ile Arg Asn Ile Leu Leu Lys Gln Leu Asp Gln Gln Ala

995	1000	1005
Ile Ile Ser Gly Glu Ser Ile Tyr Trp Ser Gln Lys Pro Thr Pro Ser		
1010	1015	1020
Ser Asn Ala Ser Pro Trp Ser Glu Pro Ala Ala Val Asp Val Glu Leu		
1025	1030	1035
Thr Ala Tyr Ala Leu Leu Ala Gln Leu Thr Lys Pro Ser Leu Thr Gln		
1045	1050	1055
Lys Glu Ile Ala Lys Ala Thr Ser Ile Val Ala Trp Leu Ala Lys Gln		
1060	1065	1070
Arg Asn Ala Tyr Gly Gly Phe Ser Ser Thr Gln Asp Thr Val Val Ala		
1075	1080	1085
Leu Gln Ala Leu Ala Lys Tyr Ala Thr Thr Ala Tyr Val Pro Ser Glu		
1090	1095	1100
Glu Ile Asn Leu Val Val Lys Ser Thr Glu Asn Phe Gln Arg Thr Phe		
1105	1110	1115
Asn Ile Gln Ser Val Asn Arg Leu Val Phe Gln Gln Asp Thr Leu Pro		
1125	1130	1135
Asn Val Pro Gly Met Tyr Thr Leu Glu Ala Ser Gly Gln Gly Cys Val		
1140	1145	1150
Tyr Val Gln Thr Val Leu Arg Tyr Asn Ile Leu Pro Pro Thr Asn Met		
1155	1160	1165
Lys Thr Phe Ser Leu Ser Val Glu Ile Gly Lys Ala Arg Cys Glu Gln		
1170	1175	1180
Pro Thr Ser Pro Arg Ser Leu Thr Leu Thr Ile His Thr Ser Tyr Val		
1185	1190	1195
Gly Ser Arg Ser Ser Ser Asn Met Ala Ile Val Glu Val Lys Met Leu		
1205	1210	1215
Ser Gly Phe Ser Pro Met Glu Gly Thr Asn Gln Leu Leu Leu Gln Gln		
1220	1225	1230
Pro Leu Val Lys Lys Val Glu Phe Gly Thr Asp Thr Leu Asn Ile Tyr		
1235	1240	1245
Leu Asp Glu Leu Ile Lys Asn Thr Gln Thr Tyr Thr Phe Thr Ile Ser		
1250	1255	1260
Gln Ser Val Leu Val Thr Asn Leu Lys Pro Ala Thr Ile Lys Val Tyr		
1265	1270	1275
Asp Tyr Tyr Leu Pro Asp Glu Gln Ala Thr Ile Gln Tyr Ser Asp Pro		



1285 1290 1295  
Cys Glu

<210> 2909

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2909

Met Trp Glu Leu Trp Glu Tyr Asn Thr Arg Phe Gly Trp Gly His Ser  
1 5 10 15  
Arg Thr Ile Ser Gln Val Glu Asn Pro Ala Lys Val Leu Asn Val Glu  
20 25 30  
Pro Ala Lys Val Gln Pro Arg Phe Gly Val Val Pro Pro Ala Lys Ala  
35 40 45  
His Pro Ser Ser Asp Pro Arg Ala Glu Asp Ser Trp Pro Lys Cys Glu  
50 55 60  
Gly Ser Gly Arg Pro Met Phe Arg Phe Trp Trp Gln Val Leu Ala Gly  
65 70 75 80  
Arg Asp Val Cys Pro Pro Ile Cys Asp Ser Phe Ile Glu Pro Gly Ser  
85 90 95  
Arg Lys Pro Phe Glu Asp Val Val  
100

<210> 2910

<211> 143

<212> PRT

<213> Homo sapiens

<400> 2910

Met Phe Ser Tyr Cys Val Tyr Leu Arg Leu Phe Cys Val Cys Val His  
1 5 10 15  
Val Cys Ser Tyr His Val Cys Met Arg Met Cys Val Thr Val Cys Val

20	25	30
Arg Ala Leu Val	Arg Ala His Val	Cys Leu Val Thr Val Cys Leu Arg
35	40	45
Leu Phe Cys Val	Cys Ala His Met	Cys Leu Val Pro Cys Val Cys Val
50	55	60
Cys Ala Trp Ala	Cys Val Phe Ser	Cys Cys Val Arg Val Leu Val Leu
65	70	75
Cys Val Cys Thr	His Val Cys Leu Val	Thr Val Cys Ala Cys Ala Cys
85	90	95
Phe Val Cys Val	His Ala Cys Leu Val	Thr Ala Cys Ala Cys Ala Cys
100	105	110
Phe Val Cys Val	Cys Met Cys Val Val	Thr Met Cys Ala Cys Ala Cys
115	120	125
Val Leu Pro Cys	Val Cys Val His Leu	Cys Val Arg Met Cys Val
130	135	140

&lt;210&gt; 2911

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2911

Met Ala Phe Ser	Lys Asp Pro Trp	Leu Trp Leu Leu	Ser Leu Leu Leu
1	5	10	15
Pro Ile Pro Asp	Ser Arg Leu Arg	His Pro Ser Pro	Gly Gln Phe Glu
20	25	30	
Cys Ser Glu Asn	Glu His Arg Gly	Ala Trp Phe Leu	Ala Ser Pro Ala
35	40	45	
Phe His Gln Pro	Leu Trp His Pro	Leu Tyr Cys Asp	Ser His Lys Ala
50	55	60	
Gln Arg Phe Leu	Phe Thr Phe Lys	Cys Arg Lys Val	Leu Cys Cys Leu
65	70	75	80
Val Tyr Arg Glu	Ala Ser Phe Ala	His Pro Val Phe	Thr Pro Cys Leu
85	90	95	
Ser Tyr Pro Arg	Gly Ser Ala Gly	Gly Pro Gly Lys	Gly Gln Pro Leu

100                      105                      110  
 Thr Cys Leu Ala Thr Ile Val Ile Leu Leu Ser Ala Val Ala Ala Pro  
 115                      120                      125  
 Leu Ala Lys Thr Ser Gly Leu Arg Ala Leu Cys Gly Gln Asp Phe  
 130                      135                      140

<210> 2912

<211> 446

<212> PRT

<213> Homo sapiens

<400> 2912

Met Asp Leu Ala Ala Ile Glu Gly Thr Ser Gln Glu Leu Thr Lys Ser  
 1                      5                      10                      15  
 His Arg Arg Asn Thr Ser Gly Thr Pro Ser Ile Ala Val Ser Gly Thr  
 20                      25                      30  
 Ser Leu Ser Ser Asp Gln Ser Arg Ser Glu Leu Asp Leu Ser Glu Ser  
 35                      40                      45  
 Phe Thr Glu Asp Ser Glu Asp Thr Val Ser Ile Arg Ser Lys Ser Val  
 50                      55                      60  
 Pro Gly Ala Leu Asp Lys Asp Ser Leu Glu Glu Thr Glu Glu Ser Ile  
 65                      70                      75                      80  
 Asp Ala Leu Val Ser Ser Gln Leu Ser Thr Asn Thr His Arg Leu Ala  
 85                      90                      95  
 Ser Gly Leu Ser Thr Thr Ser Leu Asn Ser Met Met Ser Val Tyr Ser  
 100                      105                      110  
 Glu Thr Gly Asp Tyr Gly Asn Val Lys Val Ser Gly Glu Ile Leu Leu  
 115                      120                      125  
 His Ile Ser Tyr Cys Tyr Lys Thr Gly Gly Leu Tyr Ile Phe Val Lys  
 130                      135                      140  
 Asn Cys Arg Asn Leu Ala Ile Gly Asp Glu Lys Lys Gln Arg Thr Asp  
 145                      150                      155                      160  
 Ala Tyr Val Lys Ser Tyr Leu Leu Pro Asp Lys Ser Arg Asn Asn Lys  
 165                      170                      175  
 Arg Lys Thr Lys Ile Arg Thr Gly Thr Asn Pro Glu Phe Asn Glu Thr

180	185	190
Leu Lys Tyr Thr Ile Ser His Thr Gln Leu Glu Thr Arg Thr Leu Gln		
195	200	205
Leu Ser Val Trp His Tyr Asp Arg Phe Gly Arg Asn Ser Phe Leu Gly		
210	215	220
Glu Val Glu Ile Pro Phe Asp Ser Trp Asn Phe Glu Asn Pro Thr Asp		
225	230	235
Glu Trp Phe Val Leu Gln Pro Lys Val Glu Phe Ala Pro Asp Ile Gly		
245	250	255
Leu Gln Tyr Lys Gly Glu Leu Thr Val Val Leu Arg Tyr Ile Pro Pro		
260	265	270
Glu Glu Asn Leu Met Leu Pro Pro Glu Gln Leu Gln Gly Asn Lys Thr		
275	280	285
Phe Lys Lys Gly Lys Lys Lys Glu Ser Pro Val Ile Ser Gly Gly Ile		
290	295	300
Leu Glu Val Phe Ile Lys Glu Ala Lys Asn Leu Thr Ala Val Lys Ser		
305	310	315
Gly Gly Thr Ser Asp Ser Phe Val Lys Gly Tyr Leu Leu Pro Asp Asp		
325	330	335
Ser Lys Ala Thr Lys His Lys Thr Leu Val Ile Lys Lys Ser Val Asn		
340	345	350
Pro Gln Trp Asn His Thr Phe Met Phe Ser Gly Ile His Pro Gln Asp		
355	360	365
Ile Lys Asn Val Cys Leu Glu Leu Thr Ile Trp Asp Lys Glu Ala Phe		
370	375	380
Ser Ser Asn Ile Phe Leu Gly Gly Val Arg Leu Asn Ser Gly Ser Gly		
385	390	395
Val Ser His Gly Lys Asn Val Asp Trp Met Asp Ser Gln Gly Glu Glu		
405	410	415
Gln Arg Leu Trp Gln Lys Met Ala Asn Asn Pro Gly Thr Pro Phe Glu		
420	425	430
Gly Val Leu Met Leu Arg Ser Ser Met Gly Lys Cys Arg Leu		
435	440	445

&lt;210&gt; 2913

&lt;211&gt; 677

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2913

Met Asn Pro Asp Gly Thr Thr Leu Gln Asp Gly Arg His Asp Leu Val  
 1 5 10 15  
 Val Tyr Lys Gly Asp Asn Lys Lys Met Glu Asp Ala Lys Phe Tyr Leu  
 20 25 30  
 Thr Leu Pro Gly Thr Lys Met Glu Met Glu Glu Lys Glu Leu Gln Ala  
 35 40 45  
 Ser Lys Asn Leu Val Thr Phe Thr Pro Ser Lys Asp Ser Thr Lys Asp  
 50 55 60  
 Ser Phe Gln Ile Ala Thr Leu Ile Cys Ser Thr Lys Leu Thr Gln Asn  
 65 70 75 80  
 Val Asp Leu Leu Gly Leu Leu Asn Trp Arg Ser Asn Ser Gln Asn Ile  
 85 90 95  
 Lys His Asn Leu Lys Lys Leu Met Glu Val Asp Gly Gly Glu Ile Val  
 100 105 110  
 Lys Phe Leu Gln Asp Thr Leu Asp Ala Leu Phe Asn Ile Met Met Glu  
 115 120 125  
 Met Ser Asp Ser Glu Thr Tyr Asp Phe Leu Val Phe Asp Ala Leu Val  
 130 135 140  
 Phe Ile Ile Ser Leu Ile Gly Asp Ile Lys Phe Gln His Phe Asn Pro  
 145 150 155 160  
 Val Leu Glu Thr Tyr Ile Tyr Lys His Phe Ser Ala Thr Leu Ala Tyr  
 165 170 175  
 Val Lys Leu Ser Lys Val Leu Asn Phe Tyr Val Ala Asn Ala Asp Asp  
 180 185 190  
 Ser Ser Lys Thr Glu Leu Leu Phe Ala Ala Leu Lys Ala Leu Lys Tyr  
 195 200 205  
 Leu Phe Arg Phe Ile Ile Gln Ser Arg Val Leu Tyr Leu Arg Phe Tyr  
 210 215 220  
 Gly Gln Ser Lys Asp Gly Asp Glu Phe Asn Asn Ser Ile Arg Gln Leu  
 225 230 235 240

Phe	Leu	Ala	Phe	Asn	Met	Leu	Met	Asp	Arg	Pro	Leu	Glu	Glu	Ala	Val
				245					250					255	
Lys	Ile	Lys	Gly	Ala	Ala	Leu	Lys	Tyr	Leu	Pro	Ser	Ile	Ile	Asn	Asp
			260					265					270		
Val	Lys	Leu	Val	Phe	Asp	Pro	Val	Glu	Leu	Ser	Val	Leu	Phe	Cys	Lys
			275					280					285		
Phe	Ile	Gln	Ser	Ile	Pro	Asp	Asn	Gln	Leu	Val	Arg	Gln	Lys	Leu	Asn
			290				295					300			
Cys	Met	Thr	Lys	Ile	Val	Glu	Ser	Thr	Leu	Phe	Arg	Gln	Ser	Glu	Cys
305					310					315				320	
Arg	Glu	Val	Leu	Leu	Pro	Leu	Leu	Thr	Asp	Gln	Leu	Ser	Gly	Gln	Leu
					325					330				335	
Asp	Asp	Asn	Ser	Asn	Lys	Pro	Asp	His	Glu	Ala	Ser	Ser	Gln	Leu	Leu
					340					345				350	
Ser	Asn	Ile	Leu	Glu	Val	Leu	Asp	Arg	Lys	Asp	Val	Gly	Ala	Thr	Ala
			355					360					365		
Val	His	Ile	Gln	Leu	Ile	Met	Glu	Arg	Leu	Leu	Arg	Arg	Ile	Asn	Arg
			370					375					380		
Thr	Val	Ile	Gly	Met	Asn	Arg	Gln	Ser	Pro	His	Ile	Gly	Ser	Phe	Val
385					390					395				400	
Ala	Cys	Met	Ile	Ala	Leu	Leu	Gln	Gln	Met	Asp	Asp	Ser	His	Tyr	Ser
					405					410				415	
His	Tyr	Ile	Ser	Thr	Phe	Lys	Thr	Arg	Gln	Asp	Ile	Ile	Asp	Phe	Leu
			420						425					430	
Met	Glu	Thr	Phe	Ile	Met	Phe	Lys	Asp	Leu	Ile	Gly	Lys	Asn	Val	Tyr
			435					440					445		
Ala	Lys	Asp	Trp	Met	Val	Met	Asn	Met	Thr	Gln	Asn	Arg	Val	Phe	Leu
			450					455					460		
Arg	Ala	Ile	Asn	Arg	Phe	Ala	Glu	Val	Leu	Thr	Arg	Phe	Phe	Met	Asp
465					470					475				480	
Gln	Ala	Ser	Phe	Glu	Leu	Gln	Leu	Trp	Asn	Asn	Tyr	Phe	His	Leu	Ala
					485					490				495	
Val	Ala	Phe	Leu	Thr	His	Glu	Ser	Leu	Gln	Leu	Glu	Thr	Phe	Ser	Gln
					500					505				510	
Ala	Lys	Arg	Asn	Lys	Ile	Val	Lys	Lys	Tyr	Gly	Asp	Met	Arg	Lys	Glu
					515					520				525	

Ile Gly Phe Arg Ile Arg Asp Met Trp Tyr Asn Leu Gly Pro Pro Lys  
 530 535 540  
 Ile Lys Phe Ile Pro Ser Met Val Gly Pro Ile Leu Glu Val Thr Leu  
 545 550 555 560  
 Thr Pro Glu Val Glu Leu Arg Lys Ala Thr Ile Pro Ile Phe Phe Asp  
 565 570 575  
 Met Met Gln Cys Glu Phe Asn Phe Ser Gly Asn Gly Asn Phe His Met  
 580 585 590  
 Phe Glu Asn Glu Leu Ile Thr Lys Leu Asp Gln Glu Val Glu Gly Gly  
 595 600 605  
 Arg Gly Asp Glu Gln Tyr Lys Val Leu Leu Glu Lys Leu Leu Leu Glu  
 610 615 620  
 His Cys Arg Lys His Lys Tyr Leu Ser Ser Ser Gly Glu Val Phe Ala  
 625 630 635 640  
 Leu Leu Val Ser Ser Leu Leu Glu Asn Leu Leu Asp Tyr Arg Thr Ile  
 645 650 655  
 Ile Met Gln Asp Glu Ser Lys Glu Asn Arg Met Ser Cys Thr Val Asn  
 660 665 670  
 Val Leu Asn Phe Tyr  
 675

<210> 2914

<211> 1277

<212> PRT

<213> Homo sapiens

<400> 2914

Met Ala Asn Arg Arg Val Gly Arg Gly Cys Trp Glu Val Ser Pro Thr  
 1 5 10 15  
 Glu Arg Arg Pro Pro Ala Gly Leu Arg Gly Pro Ala Ala Glu Glu Glu  
 20 25 30  
 Ala Ser Ser Pro Pro Val Leu Ser Leu Ser His Phe Cys Arg Ser Pro  
 35 40 45  
 Phe Leu Cys Phe Gly Asp Val Leu Leu Gly Ala Ser Arg Thr Leu Ser  
 50 55 60

Leu Ala Leu Asp Asn Pro Asn Glu Glu Val Ala Glu Val Lys Ile Ser  
 65 70 75 80  
 His Phe Pro Ala Ala Asp Leu Gly Phe Ser Val Ser Gln Arg Cys Phe  
 85 90 95  
 Val Leu Gln Pro Lys Glu Lys Ile Val Ile Ser Val Asn Trp Thr Pro  
 100 105 110  
 Leu Lys Glu Gly Arg Val Arg Glu Ile Met Thr Phe Leu Val Asn Asp  
 115 120 125  
 Val Leu Lys His Gln Ala Ile Leu Leu Gly Asn Ala Glu Glu Gln Lys  
 130 135 140  
 Lys Lys Lys Arg Ser Leu Trp Asp Thr Ile Lys Lys Lys Lys Ile Ser  
 145 150 155 160  
 Ala Ser Thr Ser His Asn Arg Arg Val Ser Asn Ile Gln Asn Val Asn  
 165 170 175  
 Lys Thr Phe Ser Val Ser Gln Lys Val Asp Arg Val Arg Ser Pro Leu  
 180 185 190  
 Gln Asp Cys Glu Asn Leu Ala Met Asn Glu Gly Gly Pro Pro Thr Glu  
 195 200 205  
 Asn Asn Ser Leu Ile Leu Glu Glu Asn Lys Ile Pro Ile Ser Pro Ile  
 210 215 220  
 Ser Pro Ala Phe Asn Glu Cys His Gly Ala Thr Cys Leu Pro Leu Ser  
 225 230 235 240  
 Val Arg Arg Ser Thr Thr Tyr Ser Ser Leu His Ala Ser Glu Asn Arg  
 245 250 255  
 Glu Leu Leu Asn Val His Ser Ala Asn Val Ser Lys Val Ser Phe Asn  
 260 265 270  
 Glu Lys Ala Val Thr Glu Thr Ser Phe Asn Ser Val Asn Val Asn Gly  
 275 280 285  
 Gln Arg Gly Glu Asn Ser Lys Leu Ser Leu Thr Pro Asn Cys Ser Ser  
 290 295 300  
 Thr Leu Asn Ile Thr Gln Ser Gln Ile His Phe Leu Ser Pro Asp Ser  
 305 310 315 320  
 Phe Val Asn Asn Ser His Glu Ala Asn Asn Glu Leu Glu Leu Val Thr  
 325 330 335  
 Cys Leu Ser Ser Asp Met Phe Met Lys Asp Asn Ser Gln Pro Val His  
 340 345 350



Leu Glu Ser Thr Ile Ala His Glu Ile Tyr Gln Lys Ile Leu Ser Pro  
 355 360 365  
 Asp Ser Phe Ile Lys Asp Asn Tyr Gly Leu Asn Gln Asp Leu Glu Ser  
 370 375 380  
 Glu Ser Val Asn Pro Ile Leu Ser Pro Asn Gln Phe Leu Lys Asp Asn  
 385 390 395 400  
 Met Ala Tyr Met Cys Thr Ser Gln Gln Thr Cys Lys Val Pro Leu Ser  
 405 410 415  
 Asn Glu Asn Ser Gln Val Pro Gln Ser Pro Glu Asp Trp Arg Lys Ser  
 420 425 430  
 Glu Val Ser Pro Arg Ile Pro Glu Cys Gln Gly Ser Lys Ser Pro Lys  
 435 440 445  
 Ala Ile Phe Glu Glu Leu Val Glu Met Lys Ser Asn Tyr Tyr Ser Phe  
 450 455 460  
 Ile Lys Gln Asn Asn Pro Lys Phe Ser Ala Val Gln Asp Ile Ser Ser  
 465 470 475 480  
 His Ser His Asn Lys Gln Pro Lys Arg Arg Pro Ile Leu Ser Ala Thr  
 485 490 495  
 Val Thr Lys Arg Lys Ala Thr Cys Thr Arg Glu Asn Gln Thr Glu Ile  
 500 505 510  
 Asn Lys Pro Lys Ala Lys Arg Cys Leu Asn Ser Ala Val Gly Glu His  
 515 520 525  
 Glu Lys Val Ile Asn Asn Gln Lys Glu Lys Glu Asp Phe His Ser Tyr  
 530 535 540  
 Leu Pro Ile Ile Asp Pro Ile Leu Ser Lys Ser Lys Ser Tyr Lys Asn  
 545 550 555 560  
 Glu Val Thr Pro Ser Ser Thr Thr Ala Ser Val Ala Arg Lys Arg Lys  
 565 570 575  
 Ser Asp Gly Ser Met Glu Asp Ala Asn Val Arg Val Ala Ile Thr Glu  
 580 585 590  
 His Thr Glu Val Arg Glu Ile Lys Arg Ile His Phe Ser Pro Ser Glu  
 595 600 605  
 Pro Lys Thr Ser Ala Val Lys Lys Thr Lys Asn Val Thr Thr Pro Ile  
 610 615 620  
 Ser Lys Arg Ile Ser Asn Arg Glu Lys Leu Asn Leu Lys Lys Lys Thr  
 625 630 635 640

Asp Leu Ser Ile Phe Arg Thr Pro Ile Ser Lys Thr Asn Lys Arg Thr			
645	650	655	
Lys Pro Ile Ile Ala Val Ala Gln Ser Ser Leu Thr Phe Ile Lys Pro			
660	665	670	
Leu Lys Thr Asp Ile Pro Arg His Pro Met Pro Phe Ala Ala Lys Asn			
675	680	685	
Met Phe Tyr Asp Glu Arg Trp Lys Glu Lys Gln Glu Gln Gly Phe Thr			
690	695	700	
Trp Trp Leu Asn Phe Ile Leu Thr Pro Asp Asp Phe Thr Val Lys Thr			
705	710	715	720
Asn Ile Ser Glu Val Asn Ala Ala Thr Leu Leu Leu Gly Ile Glu Asn			
725	730	735	
Gln His Lys Ile Ser Val Pro Arg Ala Pro Thr Lys Glu Glu Met Ser			
740	745	750	
Leu Arg Ala Tyr Thr Ala Arg Cys Arg Leu Asn Arg Leu Arg Arg Ala			
755	760	765	
Ala Cys Arg Leu Phe Thr Ser Glu Lys Met Val Lys Ala Ile Lys Lys			
770	775	780	
Leu Glu Ile Glu Ile Glu Ala Arg Arg Leu Ile Val Arg Lys Asp Arg			
785	790	795	800
His Leu Trp Lys Asp Val Gly Glu Arg Gln Lys Val Leu Asn Trp Leu			
805	810	815	
Leu Ser Tyr Asn Pro Leu Trp Leu Arg Ile Gly Leu Glu Thr Thr Tyr			
820	825	830	
Gly Glu Leu Ile Ser Leu Glu Asp Asn Ser Asp Val Thr Gly Leu Ala			
835	840	845	
Met Phe Ile Leu Asn Arg Leu Leu Trp Asn Pro Asp Ile Ala Ala Glu			
850	855	860	
Tyr Arg His Pro Thr Val Pro His Leu Tyr Arg Asp Gly His Glu Glu			
865	870	875	880
Ala Leu Ser Lys Phe Thr Leu Lys Lys Leu Leu Leu Val Cys Phe			
885	890	895	
Leu Asp Tyr Ala Lys Ile Ser Arg Leu Ile Asp His Asp Pro Cys Leu			
900	905	910	
Phe Cys Lys Asp Ala Glu Phe Lys Ala Ser Lys Glu Ile Leu Leu Ala			
915	920	925	

Phe Ser Arg Asp Phe Leu Ser Gly Glu Gly Asp Leu Ser Arg His Leu  
 930 935 940  
 Gly Leu Leu Gly Leu Pro Val Asn His Val Gln Thr Pro Phe Asp Glu  
 945 950 955 960  
 Phe Asp Phe Ala Val Thr Asn Leu Ala Val Asp Leu Gln Cys Gly Val  
 965 970 975  
 Arg Leu Val Arg Thr Met Glu Leu Leu Thr Gln Asn Trp Asp Leu Ser  
 980 985 990  
 Lys Lys Leu Arg Ile Pro Ala Ile Ser Arg Leu Gln Lys Met His Asn  
 995 1000 1005  
 Val Asp Ile Val Leu Gln Val Leu Lys Ser Arg Gly Ile Glu Leu Ser  
 1010 1015 1020  
 Asp Glu His Gly Asn Thr Ile Leu Ser Lys Asp Ile Val Asp Arg His  
 1025 1030 1035 1040  
 Arg Glu Lys Thr Leu Arg Leu Leu Trp Lys Ile Ala Phe Ala Phe Gln  
 1045 1050 1055  
 Val Asp Ile Ser Leu Asn Leu Asp Gln Leu Lys Glu Glu Ile Ala Phe  
 1060 1065 1070  
 Leu Lys His Thr Lys Ser Ile Lys Lys Thr Ile Ser Leu Leu Ser Cys  
 1075 1080 1085  
 His Ser Asp Asp Leu Ile Asn Lys Lys Lys Gly Lys Arg Asp Ser Gly  
 1090 1095 1100  
 Ser Phe Glu Gln Tyr Ser Glu Asn Ile Lys Leu Leu Met Asp Trp Val  
 1105 1110 1115 1120  
 Asn Ala Val Cys Ala Phe Tyr Asn Lys Lys Val Glu Asn Phe Thr Val  
 1125 1130 1135  
 Ser Phe Ser Asp Gly Arg Val Leu Cys Tyr Leu Ile His His Tyr His  
 1140 1145 1150  
 Pro Cys Tyr Val Pro Phe Asp Ala Ile Cys Gln Arg Thr Thr Gln Thr  
 1155 1160 1165  
 Val Glu Cys Thr Gln Thr Gly Ser Val Val Leu Asn Ser Ser Ser Glu  
 1170 1175 1180  
 Ser Asp Asp Ser Ser Leu Asp Met Ser Leu Lys Ala Phe Asp His Glu  
 1185 1190 1195 1200  
 Asn Thr Ser Glu Leu Tyr Lys Glu Leu Leu Glu Asn Glu Lys Lys Asn  
 1205 1210 1215

Phe His Leu Val Arg Ser Ala Val Arg Asp Leu Gly Gly Ile Pro Ala  
           1220                    1225                    1230  
 Met Ile Asn His Ser Asp Thr Ser Asn Thr Ile Pro Asp Glu Lys Val  
           1235                    1240                    1245  
 Val Ile Thr Tyr Leu Ser Phe Leu Cys Ala Arg Leu Leu Asp Leu Arg  
           1250                    1255                    1260  
 Lys Glu Ile Arg Ala Ala Arg Leu Ile Gln Thr Thr Trp  
 1265                    1270                    1275

<210> 2915

<211> 164

<212> PRT

<213> Homo sapiens

<400> 2915

Met Pro Leu His Leu Ala Gly Phe Phe Phe Leu Ala Ala Tyr Ser Gln  
   1                    5                    10                    15  
 Pro Cys Ser Phe Ser Arg Ser Pro Leu Gln Gly Thr Leu Pro His Asp  
           20                    25                    30  
 Ser Gly Gln Gln His Leu Lys Thr Thr Ala Asp Asp Leu Leu Gly Val  
           35                    40                    45  
 Cys His Gln Gln Ser Pro Gly Leu Gly Gln Lys Glu Arg Thr Thr Gln  
           50                    55                    60  
 Ser Val Glu Arg Thr Glu Leu Gly Arg Leu Arg Val Ile Asp Val Ile  
   65                    70                    75                    80  
 Pro Gln His Val Glu Gly Val Val Arg Thr Ala Pro Glu Val Glu Ala  
                     85                    90                    95  
 Val Lys Val Leu Ser Glu Val Leu Pro Pro Ala His Ile Gln Gln Val  
           100                    105                    110  
 Ala Gly Glu Leu Ile Lys Ala Leu Gln Arg Gly Val Gln Asn Asn Glu  
           115                    120                    125  
 His Asp Ser Gln Glu Cys Gln Ser Leu Lys Pro Phe Gln Val Phe Val  
           130                    135                    140  
 Ser Gln Asp Pro Ile Val Leu Thr Gly Asp Gln Ala Asn Leu Val Asp  
 145                    150                    155                    160

His Lys Leu Leu

<210> 2916

<211> 108

<212> PRT

<213> Homo sapiens

<400> 2916

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Met Gln Phe Leu His Ser Val Val Gly Leu Tyr Ile Leu Val Cys Phe
 1             5             10             15
Cys Ser Gly Trp Tyr Arg Phe Phe Leu Ser Ile Phe Ser Ala Ser Phe
      20             25             30
Arg Ser Ser Cys Lys Ala Gly Leu Val Val Thr Glu Ser Leu Ser Ile
      35             40             45
Cys Leu Ser Val Lys Asp Phe Ile Ser Pro Ser Leu Met Lys Leu Ser
      50             55             60
Leu Ala Gly Tyr Glu Ile Leu Cys Leu Lys Phe Phe Ser Leu Arg Ile
      65             70             75             80
Leu Asn Ile Gly Leu His Cys Leu Leu Ala Cys Arg Val Ser Ala Glu
      85             90             95
Arg Ser Ala Val Ser Leu Trp Ala Ser Leu Cys Arg
      100            105

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<210> 2917

<211> 1047

<212> PRT

<213> Homo sapiens

<400> 2917

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Met Ala Glu Lys Arg Pro Leu Arg Thr Leu Gly Pro Val Met Tyr Gly
 1             5             10             15
Lys Leu Pro Arg Leu Glu Thr Asp Ser Gly Leu Glu His Ser Leu Pro
      20             25             30

```

His Ser Val Gly Asn Gln Asp Pro Cys Thr Tyr Lys Gly Ser Tyr Phe  
 35 40 45  
 Ser Cys Pro Met Ala Gly Thr Pro Lys Ala Glu Ser Glu Gln Leu Ala  
 50 55 60  
 Ser Trp Thr Pro Tyr Pro Pro Leu Tyr Ser Thr Gly Met Ala Gly Pro  
 65 70 75 80  
 Pro Leu Gln Ala Asp Asn Leu Leu Thr Asn Cys Leu Phe Tyr Arg Ser  
 85 90 95  
 Pro Ala Glu Gly Pro Glu Lys Met Gln Asp Ser Ser Pro Val Glu Leu  
 100 105 110  
 Leu Pro Phe Ser Pro Gln Ala His Ser Tyr Pro Gly Pro Pro Leu Ala  
 115 120 125  
 Ala Pro Lys Pro Val Tyr Arg Asn Pro Leu Cys Tyr Gly Leu Ser Thr  
 130 135 140  
 Cys Leu Gly Glu Gly Ala Val Lys Arg Pro Leu Asp Val Asp Trp Thr  
 145 150 155 160  
 Leu Ala Thr Gly Pro Leu Leu Pro Ser Ala Asp Pro Pro Cys Ser Leu  
 165 170 175  
 Ala Pro Ala Pro Ser Lys Gly Gln Thr Leu Asp Gly Thr Phe Leu Arg  
 180 185 190  
 Gly Val Pro Ala Glu Gly Ser Ser Lys Asp Ser Ser Gly Ser Phe Ser  
 195 200 205  
 Pro Cys Gln Pro Phe Leu Glu Lys Tyr Gln Thr Ile His Ser Thr Gly  
 210 215 220  
 Phe Leu Ala Ser Arg Tyr Thr Gly Pro Tyr Pro Arg Asn Ser Lys Gln  
 225 230 235 240  
 Ala Met Ser Glu Gly Pro Ser Ser Pro Trp Thr Gln Leu Ala Gln Pro  
 245 250 255  
 Leu Gly Pro Pro Cys Gln Asp Thr Gly Pro Thr His Tyr Pro Pro Pro  
 260 265 270  
 His His Pro Pro Pro His Pro Pro Gln Ala Leu Pro Cys Pro Pro Ala  
 275 280 285  
 Cys Arg His Pro Glu Lys Gln Gly Ser Tyr Ser Pro Ala Leu Pro Leu  
 290 295 300  
 Gln Pro Leu Gly Gly His Lys Gly Thr Gly Tyr Gln Ala Gly Gly Leu  
 305 310 315 320

Gly Ser Pro Tyr Leu Arg Gln Gln Ala Ala Gln Ala Pro Tyr Ile Pro  
 325 330 335  
 Pro Leu Gly Leu Asp Ala Tyr Pro Tyr Pro Ser Ala Pro Leu Pro Ala  
 340 345 350  
 Pro Ser Pro Gly Leu Lys Leu Glu Pro Pro Leu Thr Pro Arg Cys Pro  
 355 360 365  
 Leu Asp Phe Ala Pro Gln Thr Leu Ser Phe Pro Tyr Ala Arg Asp Asp  
 370 375 380  
 Leu Ser Leu Tyr Gly Ala Ser Pro Gly Leu Gly Gly Thr Pro Pro Ser  
 385 390 395 400  
 Gln Asn Asn Val Arg Ala Val Pro Gln Pro Gly Ala Phe Gln Arg Ala  
 405 410 415  
 Cys Gln Pro Leu Pro Ala Ser Gln Pro Cys Ser Glu Pro Val Arg Pro  
 420 425 430  
 Ala Gln Glu Ala Glu Glu Lys Thr Trp Leu Pro Ser Cys Arg Lys Glu  
 435 440 445  
 Lys Leu Gln Pro Arg Leu Ser Glu His Ser Gly Pro Pro Ile Val Ile  
 450 455 460  
 Arg Asp Ser Pro Val Pro Cys Thr Pro Pro Ala Leu Pro Pro Cys Ala  
 465 470 475 480  
 Arg Glu Cys Gln Ser Leu Pro Gln Lys Glu Asp Ala Arg Pro Pro Ser  
 485 490 495  
 Ser Pro Pro Met Pro Val Ile Asp Asn Val Phe Ser Leu Ala Pro Tyr  
 500 505 510  
 Arg Asp Tyr Leu Asp Val Pro Ala Pro Glu Ala Thr Thr Glu Pro Asp  
 515 520 525  
 Ser Ala Thr Ala Glu Pro Asp Ser Ala Pro Ala Thr Ser Glu Gly Gln  
 530 535 540  
 Asp Lys Gly Cys Arg Gly Thr Leu Pro Ala Gln Glu Gly Pro Ser Gly  
 545 550 555 560  
 Ser Lys Pro Leu Arg Gly Ser Leu Lys Glu Glu Val Ala Leu Asp Leu  
 565 570 575  
 Ser Val Arg Lys Pro Thr Ala Glu Ala Ser Pro Val Lys Ala Ser Arg  
 580 585 590  
 Ser Val Glu His Ala Lys Pro Thr Ala Ala Met Asp Val Pro Asp Val  
 595 600 605

Gly Asn Met Val Ser Asp Leu Pro Gly Leu Lys Lys Ile Asp Thr Glu  
 610 615 620  
 Ala Pro Gly Leu Pro Gly Val Pro Val Thr Thr Asp Ala Met Pro Arg  
 625 630 635 640  
 Thr Asn Phe His Ser Ser Val Ala Phe Met Phe Arg Lys Phe Lys Ile  
 645 650 655  
 Leu Arg Pro Ala Pro Leu Pro Ala Ala Val Val Pro Ser Thr Pro Thr  
 660 665 670  
 Ser Ala Pro Ala Pro Thr Gln Pro Ala Pro Thr Pro Thr Ser Gly Pro  
 675 680 685  
 Ile Gly Leu Arg Ile Leu Ala Gln Gln Pro Leu Ser Val Thr Cys Phe  
 690 695 700  
 Ser Leu Ala Leu Pro Ser Pro Pro Ala Val Ala Val Ala Ser Pro Ala  
 705 710 715 720  
 Pro Ala Pro Ala Pro Ser Pro Ala Pro Ala Arg Ala Gln Ala Pro Ala  
 725 730 735  
 Ser Ala Arg Asp Pro Ala Pro Ala Pro Ala Pro Val Ala Gly Pro Ala  
 740 745 750  
 Pro Ala Ser Thr Ser Ala Pro Gly Asp Ser Leu Glu Gln His Phe Thr  
 755 760 765  
 Gly Leu His Ala Ser Leu Cys Asp Ala Ile Ser Gly Ser Val Ala His  
 770 775 780  
 Ser Pro Pro Glu Lys Leu Arg Glu Trp Leu Glu Thr Ala Gly Pro Trp  
 785 790 795 800  
 Gly Gln Ala Ala Trp Gln Asp Cys Gln Gly Val Gln Gly Leu Leu Ala  
 805 810 815  
 Lys Leu Leu Ser Gln Leu Gln Arg Phe Asp Arg Thr His Arg Cys Pro  
 820 825 830  
 Phe Pro His Val Val Arg Ala Gly Ala Ile Phe Val Pro Ile His Leu  
 835 840 845  
 Val Lys Glu Arg Leu Phe Pro Arg Leu Pro Pro Ala Ser Val Asp His  
 850 855 860  
 Val Leu Gln Glu His Arg Val Glu Leu Arg Pro Thr Thr Leu Ser Glu  
 865 870 875 880  
 Glu Arg Ala Leu Arg Glu Leu Ala Leu Pro Gly Cys Thr Ser Arg Met  
 885 890 895



Leu Lys Leu Leu Ala Leu Arg Gln Leu Pro Asp Ile Tyr Pro Asp Leu  
                   900                                  905                                  910  
 Leu Gly Leu Gln Trp Arg Asp Cys Val Arg Arg Gln Leu Gly Asp Phe  
                   915                                  920                                  925  
 Asp Thr Glu Ala Gly Ala Val Ser Ser Ser Glu Pro Thr Val Ala Arg  
                   930                                  935                                  940  
 Asp Glu Pro Glu Ser Leu Ala Leu Ala Gln Lys Ser Pro Ala Pro Lys  
 945                                  950                                  955                                  960  
 Val Arg Lys Pro Gly Arg Lys Pro Pro Thr Pro Gly Pro Glu Lys Ala  
                                   965                                  970                                  975  
 Glu Ala Ala Ala Gly Glu Glu Ser Cys Gly Ala Ser Pro Thr Pro Ala  
                                   980                                  985                                  990  
 Thr Ser Ala Ser Pro Pro Gly Pro Thr Leu Lys Ala Arg Phe Arg Ser  
                   995                                  1000                                  1005  
 Leu Leu Glu Thr Ala Trp Leu Asn Gly Leu Ala Leu Pro Thr Trp Gly  
                   1010                                  1015                                  1020  
 His Lys Ser Ser Arg Pro Asp Gln Pro Ser Pro Cys Pro Gln Leu Leu  
 1025                                  1030                                  1035                                  1040  
 Asp Ser Gln Ser His His Leu  
                                   1045

<210> 2918

<211> 132

<212> PRT

<213> Homo sapiens

<400> 2918

Met Ser Pro Ser Ser Thr Trp Val Arg Asn Phe Phe Thr Phe Ser Asn  
   1                                  5                                  10                                  15  
 Ser Ala Leu Ala Cys Ser Pro Ser Phe Leu Ser Ser Thr Pro Val Ser  
                   20                                  25                                  30  
 Glu Arg Ser Thr Ile Pro Cys Ser Ile Arg Asp Leu Val Arg Cys Ser  
                   35                                  40                                  45  
 Met Gly Thr Val Ala Ser Thr Ser Ser Leu Thr Val Asp Asp Phe Leu  
                   50                                  55                                  60

Ser Met Asp Pro Phe Ile Leu Leu Lys Ala Gly Leu Gly Ser Leu Ser  
 65 70 75 80  
 Ser Thr Thr Val Ser Asp Arg Ala Leu Val Val Gln Gly Glu Ser Lys  
 85 90 95  
 His Phe Ser Arg Ile Asp Thr Lys Cys Ser Ser Phe Glu Leu Val Arg  
 100 105 110  
 Gly Asn Leu Asn Gln Lys Leu Leu Gln Ala Arg Lys Met Ser Val Cys  
 115 120 125  
 Arg Ser Thr Arg  
 130

<210> 2919

<211> 581

<212> PRT

<213> Homo sapiens

<400> 2919

Met Pro Leu Lys His Tyr Leu Leu Leu Leu Val Gly Cys Gln Ala Trp  
 1 5 10 15  
 Gly Ala Gly Leu Ala Tyr His Gly Cys Pro Ser Glu Cys Thr Cys Ser  
 20 25 30  
 Arg Ala Ser Gln Val Glu Cys Thr Gly Ala Arg Ile Val Ala Val Pro  
 35 40 45  
 Thr Pro Leu Pro Trp Asn Ala Met Ser Leu Gln Ile Leu Asn Thr His  
 50 55 60  
 Ile Thr Glu Leu Asn Glu Ser Pro Phe Leu Asn Ile Ser Ala Leu Ile  
 65 70 75 80  
 Ala Leu Arg Ile Glu Lys Asn Glu Leu Ser Arg Ile Thr Pro Gly Ala  
 85 90 95  
 Phe Arg Asn Leu Gly Ser Leu Arg Tyr Leu Ser Leu Ala Asn Asn Lys  
 100 105 110  
 Leu Gln Val Leu Pro Ile Gly Leu Phe Gln Gly Leu Asp Ser Leu Glu  
 115 120 125  
 Ser Leu Leu Leu Ser Ser Asn Gln Leu Leu Gln Ile Gln Pro Ala His  
 130 135 140

Phe Ser Gln Cys Ser Asn Leu Lys Glu Leu Gln Leu His Gly Asn His  
 145 150 155 160  
 Leu Glu Tyr Ile Pro Asp Gly Ala Phe Asp His Leu Val Gly Leu Thr  
 165 170 175  
 Lys Leu Asn Leu Gly Lys Asn Ser Leu Thr His Ile Ser Pro Arg Val  
 180 185 190  
 Phe Gln His Leu Gly Asn Leu Gln Val Leu Arg Leu Tyr Glu Asn Arg  
 195 200 205  
 Leu Thr Asp Ile Pro Met Gly Thr Phe Asp Gly Leu Val Asn Leu Gln  
 210 215 220  
 Glu Leu Ala Leu Gln Gln Asn Gln Ile Gly Leu Leu Ser Pro Gly Leu  
 225 230 235 240  
 Phe His Asn Asn His Asn Leu Gln Arg Leu Tyr Leu Ser Asn Asn His  
 245 250 255  
 Ile Ser Gln Leu Pro Pro Ser Val Phe Met Gln Leu Pro Gln Leu Asn  
 260 265 270  
 Arg Leu Thr Leu Phe Gly Asn Ser Leu Lys Glu Leu Ser Pro Gly Ile  
 275 280 285  
 Phe Gly Pro Met Pro Asn Leu Arg Glu Leu Trp Leu Tyr Asp Asn His  
 290 295 300  
 Ile Ser Ser Leu Pro Asp Asn Val Phe Ser Asn Leu Arg Gln Leu Gln  
 305 310 315 320  
 Val Leu Ile Leu Ser Arg Asn Gln Ile Ser Phe Ile Ser Pro Gly Ala  
 325 330 335  
 Phe Asn Gly Leu Thr Glu Leu Arg Glu Leu Ser Leu His Thr Asn Ala  
 340 345 350  
 Leu Gln Asp Leu Asp Gly Asn Val Phe Arg Met Leu Ala Asn Leu Gln  
 355 360 365  
 Asn Ile Ser Leu Gln Asn Asn Arg Leu Arg Gln Leu Pro Gly Asn Ile  
 370 375 380  
 Phe Ala Asn Val Asn Gly Leu Met Ala Ile Gln Leu Gln Asn Asn Gln  
 385 390 395 400  
 Leu Glu Asn Leu Pro Leu Gly Ile Phe Asp His Leu Gly Lys Leu Cys  
 405 410 415  
 Glu Leu Arg Leu Tyr Asp Asn Pro Trp Arg Cys Asp Ser Asp Ile Leu  
 420 425 430

Pro Leu Arg Asn Trp Leu Leu Leu Asn Gln Pro Arg Leu Gly Thr Asp  
 435 440 445  
 Thr Val Pro Val Cys Phe Ser Pro Ala Asn Val Arg Gly Gln Ser Leu  
 450 455 460  
 Ile Ile Ile Asn Val Asn Val Val Val Pro Ser Val His Val Pro Glu  
 465 470 475 480  
 Val Pro Ser Tyr Pro Glu Thr Pro Trp Tyr Pro Asp Thr Pro Ser Tyr  
 485 490 495  
 Pro Asp Thr Thr Ser Val Ser Ser Thr Thr Glu Leu Thr Ser Pro Val  
 500 505 510  
 Glu Asp Tyr Thr Asp Leu Thr Thr Ile Gln Val Thr Asp Asp Arg Ser  
 515 520 525  
 Val Trp Gly Met Thr Gln Ala Gln Ser Gly Leu Ala Ile Ala Ala Ile  
 530 535 540  
 Val Ile Gly Ile Val Ala Leu Ala Cys Ser Leu Ala Ala Cys Val Gly  
 545 550 555 560  
 Cys Cys Cys Cys Lys Lys Arg Ser Gln Ala Val Leu Met Gln Met Lys  
 565 570 575  
 Ala Pro Asn Glu Cys  
 580

<210> 2920

<211> 1252

<212> PRT

<213> Homo sapiens

<400> 2920

Met Leu Tyr Ala Cys Ala Arg Asn Met Ile Ser Thr Val Lys Met Phe  
 1 5 10 15  
 Leu Lys Ser Lys Gly Thr Lys Glu Leu Glu Val Asn Cys Leu Asn Gln  
 20 25 30  
 Val Lys Ser Ser Leu Leu Lys Thr Ser Lys Ser Leu Arg Gln Asn Leu  
 35 40 45  
 Gly Lys Lys Leu Asp Lys Glu Asp Lys Val Arg Glu Cys Gln Leu Gln  
 50 55 60

Val Phe Leu Arg Leu Glu Met Cys Leu Gln Cys Pro Ser Ile Asn Glu  
 65 70 75 80  
 Ser Thr Asp Asp Met Glu Gln Val Val Glu Glu Val Thr Asp Leu Leu  
 85 90 95  
 Arg Met Val Cys Leu Thr Glu Asp Ser Ala Tyr Leu Ala Glu Phe Leu  
 100 105 110  
 Glu Glu Ile Leu Arg Leu Tyr Ile Asp Ser Ile Pro Lys Thr Leu Gly  
 115 120 125  
 Asn Leu Tyr Asn Ser Leu Gly Phe Val Ile Pro Gln Lys Leu Ala Gly  
 130 135 140  
 Val Leu Pro Thr Asp Phe Phe Ser Asp Asp Ser Met Thr Gln Glu Asn  
 145 150 155 160  
 Lys Ser Pro Leu Leu Ser Val Pro Phe Leu Ser Ser Ala Arg Arg Ser  
 165 170 175  
 Val Ser Gly Ser Pro Glu Ser Asp Glu Leu Gln Glu Leu Arg Thr Arg  
 180 185 190  
 Ser Ala Lys Lys Arg Arg Lys Asn Ala Leu Ile Arg His Lys Ser Ile  
 195 200 205  
 Ala Glu Val Ser Gln Asn Leu Arg Gln Ile Glu Ile Pro Lys Val Ser  
 210 215 220  
 Lys Arg Ala Thr Lys Lys Glu Asn Ser His Pro Ala Pro Gln Gln Pro  
 225 230 235 240  
 Ser Gln Pro Val Lys Asp Thr Val Gln Glu Val Thr Lys Val Arg Arg  
 245 250 255  
 Asn Leu Phe Asn Gln Glu Leu Leu Ser Pro Ser Lys Arg Ser Leu Lys  
 260 265 270  
 Arg Gly Leu Pro Arg Ser His Ser Val Ser Ala Val Asp Gly Leu Glu  
 275 280 285  
 Asp Lys Leu Asp Asn Phe Lys Lys Asn Lys Gly Tyr His Lys Leu Leu  
 290 295 300  
 Thr Lys Ser Val Ala Glu Thr Pro Val His Lys Gln Ile Ser Lys Arg  
 305 310 315 320  
 Leu Leu His Arg Gln Ile Lys Gly Arg Ser Ser Asp Pro Gly Pro Asp  
 325 330 335  
 Ile Gly Val Val Glu Glu Ser Pro Glu Lys Gly Asp Glu Ile Gly Leu  
 340 345 350

Arg Arg Ser Pro Arg Ile Lys Gln Leu Ser Phe Ser Arg Thr His Ser  
 355 360 365  
 Ala Ser Phe Tyr Ser Val Ser Gln Pro Lys Ser Arg Ser Val Gln Arg  
 370 375 380  
 Val His Ser Phe Gln Gln Asp Lys Ser Asp Gln Arg Glu Asn Ser Pro  
 385 390 395 400  
 Val Gln Ser Ile Arg Ser Pro Lys Ser Leu Leu Phe Gly Ala Met Ser  
 405 410 415  
 Glu Met Ile Ser Pro Ser Glu Lys Gly Ser Ala Arg Met Lys Lys Arg  
 420 425 430  
 Ser Arg Asn Thr Leu Asp Ser Glu Val Pro Ala Ala Tyr Gln Thr Pro  
 435 440 445  
 Lys Lys Ser His Gln Lys Ser Leu Ser Phe Ser Lys Thr Thr Pro Arg  
 450 455 460  
 Arg Ile Ser His Thr Pro Gln Thr Pro Leu Tyr Thr Pro Glu Arg Leu  
 465 470 475 480  
 Gln Lys Ser Pro Ala Lys Met Thr Pro Thr Lys Gln Ala Ala Phe Lys  
 485 490 495  
 Glu Ser Leu Lys Asp Ser Ser Ser Pro Gly His Asp Ser Pro Leu Asp  
 500 505 510  
 Ser Lys Ile Thr Pro Gln Lys Arg His Thr Gln Ala Gly Glu Gly Thr  
 515 520 525  
 Ser Leu Glu Thr Lys Thr Pro Arg Thr Pro Lys Arg Gln Gly Thr Gln  
 530 535 540  
 Pro Pro Gly Phe Leu Pro Asn Cys Thr Trp Pro His Ser Val Asn Ser  
 545 550 555 560  
 Ser Pro Glu Ser Pro Ser Cys Pro Ala Pro Pro Thr Ser Ser Thr Ala  
 565 570 575  
 Gln Pro Arg Arg Glu Cys Leu Thr Pro Ile Arg Asp Pro Leu Arg Thr  
 580 585 590  
 Pro Pro Arg Ala Ala Ala Phe Met Gly Thr Pro Gln Asn Gln Thr His  
 595 600 605  
 Gln Gln Pro His Val Leu Arg Ala Ala Arg Ala Glu Glu Pro Ala Gln  
 610 615 620  
 Lys Leu Lys Asp Lys Ala Ile Lys Thr Pro Lys Arg Pro Gly Asn Ser  
 625 630 635 640

Thr	Val	Thr	Ser	Ser	Pro	Pro	Val	Thr	Pro	Lys	Lys	Leu	Phe	Thr	Ser
				645					650					655	
Pro	Leu	Cys	Asp	Val	Ser	Lys	Lys	Ser	Pro	Phe	Arg	Lys	Ser	Lys	Ile
			660					665						670	
Glu	Cys	Pro	Ser	Pro	Gly	Glu	Leu	Asp	Gln	Lys	Glu	Pro	Gln	Met	Ser
			675				680						685		
Pro	Ser	Val	Ala	Ala	Ser	Leu	Ser	Cys	Pro	Val	Pro	Ser	Thr	Pro	Pro
			690				695				700				
Glu	Leu	Ser	Gln	Arg	Ala	Thr	Leu	Asp	Thr	Ile	Pro	Pro	Pro	Pro	Pro
705					710					715					720
Ser	Lys	Val	Gly	Lys	Arg	Cys	Arg	Lys	Thr	Ser	Asp	Pro	Arg	Arg	Ser
			725						730				735		
Ile	Val	Glu	Cys	Gln	Pro	Asp	Ala	Ser	Ala	Thr	Pro	Gly	Val	Gly	Thr
			740					745					750		
Ala	Asp	Ser	Pro	Ala	Ala	Pro	Thr	Asp	Ser	Arg	Asp	Asp	Gln	Lys	Gly
			755					760					765		
Leu	Ser	Leu	Ser	Pro	Gln	Ser	Pro	Pro	Glu	Arg	Arg	Gly	Tyr	Pro	Gly
			770				775					780			
Pro	Gly	Leu	Arg	Ser	Asp	Trp	His	Ala	Ser	Ser	Pro	Leu	Leu	Ile	Thr
785					790					795					800
Ser	Asp	Thr	Glu	His	Val	Thr	Leu	Leu	Ser	Glu	Ala	Glu	His	His	Gly
			805						810				815		
Ile	Gly	Asp	Leu	Lys	Ser	Asn	Val	Leu	Ser	Val	Glu	Glu	Gly	Glu	Gly
			820					825					830		
Leu	Arg	Thr	Ala	Asp	Ala	Glu	Lys	Ser	Ser	Leu	Ser	His	Pro	Gly	Ile
			835					840					845		
Pro	Pro	Ser	Pro	Pro	Ser	Cys	Gly	Pro	Gly	Ser	Pro	Leu	Met	Pro	Ser
			850				855					860			
Arg	Asp	Val	His	Cys	Thr	Thr	Asp	Gly	Arg	Gln	Cys	Gln	Ala	Ser	Ala
865					870					875					880
Gln	Leu	Asp	Asn	Leu	Pro	Ala	Ser	Ala	Trp	His	Ser	Thr	Asp	Ser	Ala
			885						890				895		
Ser	Pro	Gln	Thr	Tyr	Glu	Val	Glu	Leu	Glu	Met	Gln	Ala	Ser	Gly	Leu
			900					905					910		
Pro	Lys	Leu	Arg	Ile	Lys	Lys	Ile	Asp	Pro	Ser	Ser	Ser	Leu	Glu	Ala
			915					920					925		

Glu Pro Leu Ser Lys Glu Glu Ser Ser Leu Gly Glu Glu Ser Phe Leu  
 930 935 940  
 Pro Ala Leu Ser Met Pro Arg Ala Ser Arg Ser Leu Ser Lys Pro Glu  
 945 950 955 960  
  
 Pro Thr Tyr Val Ser Pro Pro Cys Pro Arg Leu Ser His Ser Thr Pro  
 965 970 975  
 Gly Lys Ser Arg Gly Gln Thr Tyr Ile Cys Gln Ala Cys Thr Pro Thr  
 980 985 990  
 His Gly Pro Ser Ser Thr Pro Ser Pro Phe Gln Thr Asp Gly Val Pro  
 995 1000 1005  
 Trp Thr Pro Ser Pro Lys His Ser Gly Lys Thr Thr Pro Asp Ile Ile  
 1010 1015 1020  
 Lys Asp Trp Pro Arg Arg Lys Arg Ala Val Gly Cys Gly Ala Gly Ser  
 1025 1030 1035 1040  
 Ser Ser Gly Arg Gly Glu Val Gly Ala Asp Leu Pro Gly Ser Leu Ser  
 1045 1050 1055  
 Leu Leu Glu Ser Glu Gly Lys Asp His Gly Leu Glu Leu Ser Ile His  
 1060 1065 1070  
 Arg Thr Pro Ile Leu Glu Asp Phe Glu Leu Glu Gly Val Cys Gln Leu  
 1075 1080 1085  
 Pro Asp Gln Ser Pro Pro Arg Asn Ser Met Pro Lys Ala Glu Glu Ala  
 1090 1095 1100  
 Ser Ser Trp Gly Gln Phe Gly Leu Ser Ser Arg Lys Arg Val Leu Leu  
 1105 1110 1115 1120  
 Ala Lys Glu Glu Ala Asp Arg Gly Ala Lys Arg Ile Cys Asp Leu Arg  
 1125 1130 1135  
 Glu Asp Ser Glu Val Ser Lys Ser Lys Glu Gly Ser Pro Ser Trp Ser  
 1140 1145 1150  
 Ala Trp Gln Leu Pro Ser Thr Gly Asp Glu Glu Val Phe Val Ser Gly  
 1155 1160 1165  
 Ser Thr Pro Pro Pro Ser Cys Ala Val Arg Ser Cys Leu Ser Ala Ser  
 1170 1175 1180  
 Ala Leu Gln Ala Leu Thr Gln Ser Pro Leu Leu Phe Gln Gly Lys Thr  
 1185 1190 1195 1200  
 Pro Ser Ser Gln Ser Lys Asp Pro Arg Asp Glu Asp Val Asp Val Leu



1205                      1210                      1215  
 Pro Ser Thr Val Glu Asp Ser Pro Phe Ser Arg Ala Phe Ser Arg Arg  
 1220                      1225                      1230  
 Arg Pro Ile Ser Arg Thr Tyr Thr Arg Lys Lys Leu Met Gly Thr Trp  
 1235                      1240                      1245  
 Leu Glu Asp Leu  
 1250

<210> 2921

<211> 654

<212> PRT

<213> Homo sapiens

<400> 2921

Met Tyr Ser Ser Ser Cys Glu Thr Thr Arg Asn Thr Thr Gly Ile Glu  
 1                      5                      10                      15  
 Glu Ser Thr Asp Gly Met Ile Leu Gly Pro Glu Asp Leu Ser Tyr Gln  
 20                      25                      30  
 Ile Tyr Asp Val Ser Gly Glu Ser Asn Ser Ala Val Ser Thr Glu Asp  
 35                      40                      45  
 Leu Lys Glu Cys Leu Lys Lys Gln Leu Glu Phe Cys Phe Ser Arg Glu  
 50                      55                      60  
 Asn Leu Ser Lys Asp Leu Tyr Leu Ile Ser Gln Met Asp Ser Asp Gln  
 65                      70                      75                      80  
 Phe Ile Pro Ile Trp Thr Val Ala Asn Met Glu Glu Ile Lys Lys Leu  
 85                      90                      95  
 Thr Thr Asp Pro Asp Leu Ile Leu Glu Val Leu Arg Ser Ser Pro Met  
 100                      105                      110  
 Val Gln Val Asp Glu Lys Gly Glu Lys Val Arg Pro Ser His Lys Arg  
 115                      120                      125  
 Cys Ile Val Ile Leu Arg Glu Ile Pro Glu Thr Thr Pro Ile Glu Glu  
 130                      135                      140  
 Val Lys Gly Leu Phe Lys Ser Glu Asn Cys Pro Lys Val Ile Ser Cys  
 145                      150                      155                      160  
 Glu Phe Ala His Asn Ser Asn Trp Tyr Ile Thr Phe Gln Ser Asp Thr

165	170	175
Asp Ala Gln Gln Ala Phe Lys Tyr Leu Arg Glu Glu Val Lys Thr Phe		
180	185	190
Gln Gly Lys Pro Ile Met Ala Arg Ile Lys Ala Ile Asn Thr Phe Phe		
195	200	205
Ala Lys Asn Gly Tyr Arg Leu Met Asp Ser Ser Ile Tyr Ser His Pro		
210	215	220
Ile Gln Thr Gln Ala Gln Tyr Ala Ser Pro Val Phe Met Gln Pro Val		
225	230	235
Tyr Asn Pro His Gln Gln Tyr Ser Val Tyr Ser Ile Val Pro Gln Ser		
245	250	255
Trp Ser Pro Asn Pro Thr Pro Tyr Phe Glu Thr Pro Leu Ala Pro Phe		
260	265	270
Pro Asn Gly Ser Phe Val Asn Gly Phe Asn Ser Pro Gly Ser Tyr Lys		
275	280	285
Thr Asn Ala Ala Ala Met Asn Met Gly Arg Pro Phe Gln Lys Asn Arg		
290	295	300
Val Lys Pro Gln Phe Arg Ser Ser Gly Gly Ser Glu His Ser Thr Glu		
305	310	315
Gly Ser Val Ser Leu Gly Asp Gly Gln Leu Asn Arg Tyr Ser Ser Arg		
325	330	335
Asn Phe Pro Ala Glu Arg His Asn Pro Thr Val Thr Gly His Gln Glu		
340	345	350
Gln Thr Tyr Leu Gln Lys Glu Thr Ser Thr Leu Gln Val Glu Gln Asn		
355	360	365
Gly Asp Tyr Gly Arg Gly Arg Arg Thr Leu Phe Arg Gly Arg Arg Arg		
370	375	380
Arg Glu Asp Asp Arg Ile Ser Arg Pro His Pro Ser Thr Ala Glu Ser		
385	390	395
Lys Ala Pro Thr Pro Lys Phe Asp Leu Leu Ala Ser Asn Phe Pro Pro		
405	410	415
Leu Pro Gly Ser Ser Ser Arg Met Pro Gly Glu Leu Val Leu Glu Asn		
420	425	430
Arg Met Ser Asp Val Val Lys Gly Val Tyr Lys Glu Lys Asp Asn Glu		
435	440	445
Glu Leu Thr Ile Ser Cys Pro Val Pro Ala Asp Glu Gln Thr Glu Cys		

450	455	460	
Thr Ser Ala Gln Gln Leu Asn Met Ser Thr Ser Ser Pro Cys Ala Ala			
465	470	475	480
Glu Leu Thr Ala Leu Ser Thr Thr Gln Gln Glu Lys Asp Leu Ile Glu			
	485	490	495
Asp Ser Ser Val Gln Lys Asp Gly Leu Asn Gln Thr Thr Ile Pro Val			
	500	505	510
Ser Pro Pro Ser Thr Thr Lys Pro Ser Arg Ala Ser Thr Ala Ser Pro			
	515	520	525
Cys Asn Asn Asn Ile Asn Ala Ala Thr Ala Val Ala Leu Gln Glu Pro			
	530	535	540
Arg Lys Leu Ser Tyr Ala Glu Val Cys Gln Lys Pro Pro Lys Glu Pro			
545	550	555	560
Ser Ser Val Leu Val Gln Pro Leu Arg Glu Leu Arg Ser Asn Val Val			
	565	570	575
Ser Pro Thr Lys Asn Glu Asp Asn Gly Ala Pro Glu Asn Ser Val Glu			
	580	585	590
Lys Pro His Glu Lys Pro Glu Ala Arg Ala Ser Lys Asp Tyr Ser Gly			
	595	600	605
Phe Arg Gly Asn Ile Ile Pro Arg Gly Ala Ala Gly Lys Ile Arg Glu			
	610	615	620
Gln Arg Arg Gln Phe Ser His Arg Ala Ile Pro Gln Gly Val Thr Arg			
625	630	635	640
Arg Asn Gly Lys Glu Gln Tyr Val Pro Pro Arg Ser Pro Lys			
	645	650	

&lt;210&gt; 2922

&lt;211&gt; 1224

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2922

Met Pro Val Val Trp Pro Thr Leu Leu Asp Leu Ser Arg Asp Glu Cys
1 5 10 15
Lys Arg Ile Leu Arg Lys Leu Glu Leu Glu Ala Tyr Ala Gly Val Ile

	20		25		30										
Ser	Ala	Leu	Arg	Ala	Gln	Gly	Asp	Leu	Thr	Lys	Glu	Lys	Lys	Asp	Leu
	35						40					45			
Leu	Gly	Glu	Leu	Ser	Lys	Val	Leu	Ser	Ile	Ser	Thr	Glu	Arg	His	Arg
	50					55						60			
Ala	Glu	Val	Arg	Arg	Ala	Val	Asn	Asp	Glu	Arg	Leu	Thr	Thr	Ile	Ala
	65					70				75					80
His	Asn	Met	Ser	Gly	Pro	Asn	Ser	Ser	Ser	Glu	Trp	Ser	Ile	Glu	Gly
				85					90					95	
Arg	Arg	Leu	Val	Pro	Leu	Met	Pro	Arg	Leu	Val	Pro	Gln	Thr	Ala	Phe
	100							105					110		
Thr	Val	Thr	Ala	Asn	Ala	Val	Ala	Asn	Ala	Ala	Ile	Gln	His	Asn	Ala
	115						120					125			
Ser	Leu	Pro	Val	Pro	Ala	Glu	Thr	Gly	Ser	Lys	Glu	Val	Val	Val	Cys
	130					135					140				
Tyr	Ser	Tyr	Thr	Ser	Thr	Thr	Ser	Thr	Pro	Thr	Ser	Thr	Pro	Val	Pro
	145				150				155					160	
Ser	Gly	Ser	Ile	Ala	Thr	Val	Lys	Ser	Pro	Arg	Pro	Ala	Ser	Pro	Ala
			165					170					175		
Ser	Asn	Val	Val	Val	Leu	Pro	Ser	Gly	Ser	Thr	Val	Tyr	Val	Lys	Ser
	180						185					190			
Val	Ser	Cys	Ser	Asp	Glu	Asp	Glu	Lys	Pro	Arg	Lys	Arg	Arg	Arg	Thr
	195					200					205				
Asn	Ser	Ser	Ser	Ser	Ser	Pro	Val	Val	Leu	Lys	Glu	Val	Pro	Lys	Ala
	210					215					220				
Val	Val	Pro	Val	Ser	Lys	Thr	Ile	Thr	Val	Pro	Val	Ser	Gly	Ser	Pro
	225				230				235					240	
Lys	Met	Ser	Asn	Ile	Met	Gln	Ser	Ile	Ala	Asn	Ser	Leu	Pro	Pro	His
			245					250					255		
Met	Ser	Pro	Val	Lys	Ile	Ser	Phe	Thr	Lys	Pro	Ser	Thr	Gln	Thr	Thr
	260						265					270			
Asn	Thr	Thr	Thr	Gln	Lys	Val	Ile	Ile	Val	Thr	Thr	Ser	Pro	Ser	Ser
	275					280					285				
Thr	Phe	Val	Pro	Asn	Ile	Leu	Ser	Lys	Ser	His	Asn	Tyr	Ala	Ala	Val
	290				295						300				
Thr	Lys	Leu	Val	Pro	Thr	Ser	Val	Ile	Ala	Ser	Thr	Thr	Gln	Lys	Pro

305                      310                      315                      320  
 Pro Val Val Ile Thr Ala Ser Gln Ser Ser Leu Val Ser Asn Ser Ser  
                          325                      330                      335  
 Ser Gly Ser Ser Ser Ser Thr Pro Ser Pro Ile Pro Asn Thr Val Ala  
                          340                      345                      350  
 Val Thr Ala Val Val Ser Ser Thr Pro Ser Val Val Met Ser Thr Val  
                          355                      360                      365  
 Ala Gln Gly Val Lys Ile Ile Thr Gln Gln Val Gln Pro Ser Lys Ile  
                          370                      375                      380  
 Leu Pro Lys Pro Val Thr Ala Thr Leu Pro Thr Ser Ser Asn Ser Pro  
 385                      390                      395                      400  
 Ile Met Val Val Ser Ser Asn Gly Ala Ile Met Thr Thr Lys Leu Val  
                          405                      410                      415  
 Thr Thr Pro Thr Gly Thr Gln Ala Thr Tyr Thr Arg Pro Thr Val Ser  
                          420                      425                      430  
 Pro Ser Ile Gly Arg Met Ala Ala Thr Pro Gly Ala Ala Thr Tyr Val  
                          435                      440                      445  
 Lys Thr Thr Ser Gly Ser Ile Ile Thr Val Val Pro Lys Ser Leu Ala  
                          450                      455                      460  
 Thr Leu Gly Gly Lys Ile Ile Ser Ser Asn Ile Val Ser Gly Thr Thr  
 465                      470                      475                      480  
 Thr Lys Ile Thr Thr Ile Pro Met Thr Ser Lys Pro Asn Val Ile Val  
                          485                      490                      495  
 Val Gln Lys Thr Thr Gly Lys Gly Thr Thr Ile Gln Gly Leu Pro Gly  
                          500                      505                      510  
 Lys Asn Val Val Thr Thr Leu Leu Asn Ala Gly Gly Glu Lys Thr Ile  
                          515                      520                      525  
 Gln Thr Val Pro Thr Gly Ala Lys Pro Ala Ile Leu Thr Ala Thr Arg  
                          530                      535                      540  
 Pro Ile Thr Lys Met Ile Val Thr Gln Pro Lys Gly Ile Gly Ser Thr  
 545                      550                      555                      560  
 Val Gln Pro Ala Ala Lys Ile Ile Pro Thr Lys Ile Val Tyr Gly Gln  
                          565                      570                      575  
 Gln Gly Lys Thr Gln Val Leu Ile Lys Pro Lys Pro Val Thr Phe Gln  
                          580                      585                      590  
 Ala Thr Val Val Ser Glu Gln Thr Arg Gln Leu Val Thr Glu Thr Leu

595	600	605
Gln Gln Ala Ser Arg Val Ala Glu Ala Gly Asn Ser Ser Ile Gln Glu		
610	615	620
Gly Lys Glu Glu Pro Gln Asn Tyr Thr Asp Ser Ser Tyr Ser Ser Thr		
625	630	635
Glu Ser Ser Arg Ser Ser Gln Asp Ser Gln Pro Val Val His Val Ile		
645	650	655
Ala Ser Arg Arg Gln Asp Trp Ser Glu His Glu Ile Ala Met Glu Thr		
660	665	670
Ser Pro Thr Ile Ile Tyr Gln Asp Val Ser Ser Glu Ser Gln Ser Ala		
675	680	685
Thr Ser Thr Ile Lys Ala Leu Leu Glu Leu Gln Gln Thr Thr Val Lys		
690	695	700
Glu Lys Leu Glu Ser Lys Pro Arg Gln Pro Thr Ile Asp Leu Ser Gln		
705	710	715
Met Ala Val Pro Ile Gln Met Thr Gln Glu Lys Arg His Ser Pro Glu		
725	730	735
Ser Pro Ser Ile Ala Val Val Glu Ser Glu Leu Val Ala Glu Tyr Ile		
740	745	750
Thr Thr Val Ser His Arg Ser Gln Pro Gln Gln Pro Ser Gln Pro Gln		
755	760	765
Arg Thr Leu Leu Gln His Val Ala Gln Ser Gln Thr Ala Thr Gln Thr		
770	775	780
Ser Val Val Val Lys Ser Ile Pro Ala Ser Ser Pro Gly Ala Ile Thr		
785	790	795
His Ile Met Gln Gln Ala Leu Ser Ser His Thr Ala Phe Thr Lys His		
805	810	815
Ser Glu Glu Leu Gly Thr Glu Glu Gly Glu Val Glu Glu Met Asp Thr		
820	825	830
Leu Asp Pro Gln Thr Gly Leu Phe Tyr Arg Ser Ala Leu Thr Gln Ser		
835	840	845
Gln Ser Ala Lys Gln Gln Lys Leu Ser Gln Pro Pro Leu Glu Gln Thr		
850	855	860
Gln Leu Gln Val Lys Thr Leu Gln Cys Phe Gln Thr Lys Gln Lys Gln		
865	870	875
Thr Ile His Leu Gln Ala Asp Gln Leu Gln His Lys Leu Pro Gln Met		

	885	890	895
Pro Gln Leu Ser Ile Arg His Gln Lys Leu Thr Pro Leu Gln Gln Glu			
900	905	910	
Gln Ala Gln Pro Lys Pro Asp Val Gln His Thr Gln His Pro Met Val			
915	920	925	
Ala Lys Asp Arg Gln Leu Pro Thr Leu Met Ala Gln Pro Pro Gln Thr			
930	935	940	
Val Val Gln Val Leu Ala Val Lys Thr Thr Gln Gln Leu Pro Lys Leu			
945	950	955	960
Gln Gln Ala Pro Asn Gln Pro Lys Ile Tyr Val Gln Pro Gln Thr Pro			
965	970	975	
Gln Ser Gln Met Ser Leu Pro Ala Ser Ser Glu Lys Gln Thr Ala Ser			
980	985	990	
Gln Val Glu Gln Pro Ile Ile Thr Gln Gly Ser Ser Val Thr Lys Ile			
995	1000	1005	
Thr Phe Glu Gly Arg Gln Pro Pro Thr Val Thr Lys Ile Thr Gly Gly			
1010	1015	1020	
Ser Ser Val Pro Lys Leu Thr Ser Pro Val Thr Ser Ile Ser Pro Ile			
1025	1030	1035	1040
Gln Ala Ser Glu Lys Thr Ala Val Ser Asp Ile Leu Lys Met Ser Leu			
1045	1050	1055	
Met Glu Ala Gln Ile Asp Thr Asn Val Glu His Met Ile Val Asp Pro			
1060	1065	1070	
Pro Lys Lys Ala Leu Ala Thr Ser Met Leu Thr Gly Glu Ala Gly Ser			
1075	1080	1085	
Leu Pro Ser Thr His Met Val Val Ala Gly Met Ala Asn Ser Thr Pro			
1090	1095	1100	
Gln Gln Gln Lys Cys Arg Glu Ser Cys Ser Ser Pro Ser Thr Val Gly			
1105	1110	1115	1120
Ser Ser Leu Thr Thr Arg Lys Ile Asp Pro Pro Ala Val Pro Ala Thr			
1125	1130	1135	
Gly Gln Phe Met Arg Ile Gln Asn Val Gly Gln Lys Lys Ala Glu Glu			
1140	1145	1150	
Ser Pro Ala Glu Ile Ile Ile Gln Ala Ile Pro Gln Tyr Ala Ile Pro			
1155	1160	1165	
Cys His Ser Ser Ser Asn Val Val Val Glu Pro Ser Gly Leu Leu Glu			

1170                      1175                      1180  
 Leu Asn Asn Phe Thr Ser Gln Gln Leu Asp Asp Glu Glu Thr Ala Met  
 1185                      1190                      1195                      1200  
 Glu Gln Asp Ile Asp Ser Ser Thr Glu Asp Gly Thr Glu Pro Ser Pro  
                          1205                      1210                      1215  
 Ser Gln Ser Ser Ala Glu Arg Ser  
                          1220

<210> 2923

<211> 243

<212> PRT

<213> Homo sapiens

<400> 2923

Met Glu Arg Arg Trp Leu Ser Leu Arg Ser Ser Ser Cys Ser Ala Pro  
   1                      5                      10                      15  
 Arg Leu Asn Thr Ala Trp Gly Met Arg Ser Ser Pro Gln Ala Thr Ser  
                          20                      25                      30  
 Ser Ser Ser Arg Asn Ala Ala Ser Phe Leu Arg Leu Phe Arg Ala Thr  
                          35                      40                      45  
 Arg Arg Ala Pro Ser Leu Cys Arg Leu Ser Leu Cys Arg Trp Pro Ala  
   50                      55                      60  
 Thr Ser Val Thr Leu Ala Gly Thr Phe Pro Ala Leu Leu Arg Arg Asp  
   65                      70                      75                      80  
 Asn Thr Leu Ser Cys Phe Ser Ser Arg Arg Leu Ser Arg Val Ala Ala  
                          85                      90                      95  
 Arg Ala Ser Ser Trp Gly Lys Ser Pro Ser Arg Cys Ser Ser Ser Lys  
                          100                      105                      110  
 Pro Arg Ser Pro Asn Thr Gln Ser Gly Thr Ser Arg Ser Ser Ser His  
                          115                      120                      125  
 Leu Thr Arg Ile Thr Phe Arg Trp Ser Arg Arg Lys Thr Cys Lys Glu  
                          130                      135                      140  
 Lys Gly Ser Leu Ala Gly Glu Trp Ser Lys Leu Ser Ser Cys Lys Cys  
   145                      150                      155                      160



Thr Ser Cys Asp Ser Pro Gly Gly Lys Val Ile Ser Gln Met Ala Ser  
                     165                    170                    175  
 Ser Leu Ser Asp Ser Thr Ser Leu Ser Ser Lys Thr Val Ser Gly Arg  
                     180                    185                    190  
 Pro Gly Ser Met Gln Arg Ala Ser Ser Ser Arg Pro Ala Ala Leu Arg  
                     195                    200                    205  
 Cys Ser Phe Ser Arg Ser Phe Ser Gly Val His Ser Trp Leu Arg Leu  
                     210                    215                    220  
 Ser Cys Phe Arg Arg Leu Ser Leu Thr Ser Asp Arg Lys Thr Ala Lys  
 225                    230                    235                    240  
 Arg Leu Glu

<210> 2924

<211> 944

<212> PRT

<213> Homo sapiens

<400> 2924

Met Pro Leu Ala Gly Met Ser Leu Gly Ser Leu Lys Ser Glu Phe Val  
                     1                    5                    10                    15  
 Pro Ser Thr Ser Thr Lys Gln Gln Gly Pro Gln Pro Thr Leu Ser Val  
                     20                    25                    30  
 Gly Gln Glu Ser Ser Ser Pro Glu Asp His Val Cys Leu Leu Asp Cys  
                     35                    40                    45  
 Val Val Val Asp Leu Gln Asp Met Asp Ile Phe Ala Ala Glu Arg His  
                     50                    55                    60  
 Pro Arg Glu Tyr Ser Lys Ala Pro Glu Asp Ser Ser Gly Asp Leu Ile  
 65                    70                    75                    80  
 Phe Pro Ser Tyr Phe Val Arg Gln Thr Gly Gly Ser Leu Leu Thr Glu  
                     85                    90                    95  
 Pro Cys Arg Leu Lys Leu Gln Val Glu Arg Asn Leu Asp Lys Glu Ile  
                     100                    105                    110  
 Ser His Thr Val Pro Asp Ile Ser Ile His Gly Asn Leu Ser Ser Val

115	120	125
His Cys Ser Leu Asp Leu Tyr Lys Tyr Lys Leu Ile Arg Gly Leu Leu		
130	135	140
Glu Asn Asn Leu Gly Glu Pro Ile Glu Glu Phe Met Arg Pro Tyr Asp		
145	150	155
Leu Gln Asp Pro Arg Ile His Thr Val Leu Ser Gly Glu Val Tyr Thr		
165	170	175
Cys Met Cys Phe Leu Ile Asp Met Val Asn Val Ser Leu Glu Leu Lys		
180	185	190
Asp Pro Lys Arg Lys Glu Gly Ala Gly Ser Leu Ala Arg Phe Asp Phe		
195	200	205
Lys Lys Cys Lys Leu Leu Tyr Glu Ser Phe Ser Asn Gln Thr Lys Ser		
210	215	220
Ile Asn Leu Val Ser His Ser Met Met Ala Phe Asp Thr Arg Tyr Ala		
225	230	235
Gly Gln Lys Thr Ser Pro Gly Met Thr Asn Val Phe Ser Cys Ile Phe		
245	250	255
Gln Pro Ala Lys Asn Ser Ser Thr Thr Gln Gly Ser Ile Gln Ile Glu		
260	265	270
Leu His Phe Arg Ser Thr Lys Asp Ser Ser Cys Phe Thr Val Val Leu		
275	280	285
Asn Asn Leu Arg Val Phe Leu Ile Phe Asp Trp Leu Leu Leu Val His		
290	295	300
Asp Phe Leu His Thr Pro Ser Asp Ile Lys Lys Gln Asn His Val Thr		
305	310	315
Pro Ser Arg His Arg Asn Ser Ser Ser Glu Ser Ala Ile Val Pro Lys		
325	330	335
Thr Val Lys Ser Gly Val Val Thr Lys Arg Ser Ser Leu Pro Val Ser		
340	345	350
Asn Glu Arg His Leu Glu Val Lys Val Asn Val Thr Gly Thr Glu Phe		
355	360	365
Val Val Ile Glu Asp Val Ser Cys Phe Asp Thr Asn Ala Ile Ile Leu		
370	375	380
Lys Gly Thr Thr Val Leu Thr Tyr Lys Pro Arg Phe Val Asp Arg Pro		
385	390	395
Phe Ser Gly Ser Leu Phe Gly Ile Glu Val Phe Ser Cys Arg Leu Gly		400

	405	410	415
Asn Glu His Asp Thr Ala Leu Ser Ile Val Asp Pro Val Gln Ile Gln			
	420	425	430
Met Glu Leu Val Gly Asn Ser Ser Tyr Gln Asn Ser Ser Gly Leu Met			
	435	440	445
Asp Ala Phe Asn Ser Glu Asp Phe Pro Pro Val Leu Glu Ile Gln Leu			
	450	455	460
Gln Ala Leu Asp Ile Arg Leu Ser Tyr Asn Asp Val Gln Leu Phe Leu			
465	470	475	480
Ala Ile Ala Lys Ser Ile Pro Glu Gln Ala Asn Ala Ala Val Pro Asp			
	485	490	495
Ser Val Ala Leu Glu Ser Asp Ser Val Gly Thr Tyr Leu Pro Gly Ala			
	500	505	510
Ser Arg Val Gly Glu Glu Ile Arg Glu Gly Thr Arg His Thr Leu Asp			
	515	520	525
Pro Val Leu Glu Leu Gln Leu Ala Arg Leu Gln Glu Leu Gly Phe Ser			
	530	535	540
Met Asp Asp Cys Arg Lys Ala Leu Leu Ala Cys Gln Gly Gln Leu Lys			
545	550	555	560
Lys Ala Ala Ser Trp Leu Phe Lys Asn Ala Glu Pro Leu Lys Ser Leu			
	565	570	575
Ser Leu Ala Ser Thr Ser Arg Asp Ser Pro Gly Ala Val Ala Ala Pro			
	580	585	590
Leu Ile Ser Gly Val Glu Ile Lys Ala Glu Ser Val Cys Ile Cys Phe			
	595	600	605
Ile Asp Asp Cys Met Asp Cys Asp Val Pro Leu Ala Glu Leu Thr Phe			
	610	615	620
Ser Arg Leu Asn Phe Leu Gln Arg Val Arg Thr Ser Pro Glu Gly Tyr			
625	630	635	640
Ala His Phe Thr Leu Ser Gly Asp Tyr Tyr Asn Arg Ala Leu Ser Gly			
	645	650	655
Trp Glu Pro Phe Ile Glu Pro Trp Pro Cys Ser Val Ser Trp Gln Gln			
	660	665	670
Gln Ala Ala Ser Arg Leu His Pro Pro Arg Leu Lys Leu Glu Ala Lys			
	675	680	685
Ala Lys Pro Arg Leu Asp Ile Asn Ile Thr Ser Val Leu Ile Asp Gln			

690	695	700
Tyr Val Ser Thr Lys Glu Ser Trp Met Ala Asp Tyr Cys Lys Asp Asp		
705	710	715
Lys Asp Ile Glu Ser Ala Lys Ser Glu Asp Trp Met Gly Ser Ser Val		
725	730	735
Asp Pro Pro Cys Phe Gly Gln Thr Glu Val Lys Thr Pro Lys Arg Arg		
740	745	750
Gln Pro Phe Val Pro Phe Ala Leu Arg Asn His Thr Gly Cys Thr Leu		
755	760	765
Trp Phe Ala Thr Leu Thr Thr Thr Pro Thr Arg Ala Ala Leu Ser His		
770	775	780
Ser Gly Ser Pro Gly Val Val Pro Glu Gly Asn Gly Thr Phe Leu Asp		
785	790	795
Asp Thr His Asn Val Ser Glu Trp Arg Glu Val Leu Thr Gly Glu Glu		
805	810	815
Ile Pro Phe Glu Phe Glu Ala Arg Gly Lys Leu Arg His Arg His Thr		
820	825	830
His Asp Leu Arg Ile His Gln Leu Gln Val Arg Val Asn Gly Trp Glu		
835	840	845
Gln Val Ser Pro Val Ser Val Asp Lys Val Gly Thr Phe Phe Arg Tyr		
850	855	860
Ala Ala Pro Asp Lys Asn Ser Ser Ser Ser Thr Ile Gly Ser Pro Ser		
865	870	875
Ser Arg Thr Asn Ile Ile His Pro Gln Val Tyr Phe Ser Ser Leu Pro		
885	890	895
Pro Val Arg Val Val Phe Ala Val Thr Met Glu Gly Ser Ala Arg Lys		
900	905	910
Val Ile Thr Val Arg Ser Ala Leu Ile Val Arg Asn Arg Leu Glu Thr		
915	920	925
Pro Met Glu Leu Arg Leu Asp Ser Pro Ser Ala Pro Asp Ser Met Phe		
930	935	940

&lt;210&gt; 2925

&lt;211&gt; 293

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2925

Met Thr Gly Leu Tyr Glu Leu Val Trp Arg Val Leu His Ala Leu Leu  
 1 5 10 15  
 Cys Leu His Arg Thr Leu Thr Ser Trp Leu Arg Val Arg Phe Gly Thr  
 20 25 30  
 Trp Asn Trp Ile Trp Arg Arg Cys Cys Arg Ala Ala Ser Ala Ala Val  
 35 40 45  
 Leu Ala Pro Leu Gly Phe Thr Leu Arg Lys Pro Pro Ala Val Gly Arg  
 50 55 60  
 Asn Arg Arg His His Arg His Pro Arg Gly Gly Ser Cys Leu Ala Ala  
 65 70 75 80  
 Ala His His Arg Met Arg Trp Arg Ala Asp Gly Arg Ser Leu Glu Lys  
 85 90 95  
 Leu Pro Val His Met Gly Leu Val Ile Thr Glu Val Glu Gln Glu Pro  
 100 105 110  
 Ser Phe Ser Asp Ile Ala Ser Leu Val Val Trp Cys Met Ala Val Gly  
 115 120 125  
 Ile Ser Tyr Ile Ser Val Tyr Asp His Gln Gly Ile Phe Lys Arg Asn  
 130 135 140  
 Asn Ser Arg Leu Met Asp Glu Ile Leu Lys Gln Gln Gln Glu Leu Leu  
 145 150 155 160  
 Gly Leu Asp Cys Ser Lys Tyr Ser Pro Glu Phe Ala Asn Ser Asn Asp  
 165 170 175  
 Lys Asp Asp Gln Val Leu Asn Cys His Leu Ala Val Lys Val Leu Ser  
 180 185 190  
 Pro Glu Asp Gly Lys Ala Asp Ile Val Arg Ala Ala Gln Asp Phe Cys  
 195 200 205  
 Gln Leu Val Ala Gln Lys Gln Lys Arg Pro Thr Asp Leu Asp Val Asp  
 210 215 220  
 Thr Leu Ala Ser Leu Leu Ser Ser Asn Gly Cys Pro Asp Pro Asp Leu  
 225 230 235 240  
 Val Leu Lys Phe Gly Pro Val Asp Ser Thr Leu Gly Phe Leu Pro Trp  
 245 250 255  
 His Ile Arg Leu Thr Glu Thr Val Ser Leu Pro Ser His Leu Asn Ile

260                      265                      270  
 Ser Tyr Glu Asp Phe Phe Ser Ala Leu Arg Gln Tyr Ala Ala Cys Glu  
 275                      280                      285  
 Gln Arg Leu Gly Lys  
 290

<210> 2926

<211> 286

<212> PRT

<213> Homo sapiens

<400> 2926

Met Pro Cys Gly Thr Val Val Thr Thr Val Thr Ala Val Lys Thr Lys  
 1                      5                      10                      15  
 Pro Arg Val Asp Val Gly Arg Ala Ser Pro Leu Ser Ser Asp Ser Pro  
 20                      25                      30  
 Val Lys Thr Pro Ile Lys Val Lys Val Ile Glu Lys Asp Ile Ser Val  
 35                      40                      45  
 Gln Ala Ile Ala Cys Arg Ser Ala Pro Val Ser Lys Thr Leu Ser Ser  
 50                      55                      60  
 Ser Asp Thr Glu Leu Leu Val Leu Asn Gly Ser Asp Pro Val Ala Glu  
 65                      70                      75                      80  
 Val Ala Ile Arg Gln Leu Ser Glu Ser Ser Lys Leu Lys Leu Lys Ser  
 85                      90                      95  
 Pro Arg Lys Lys Ser Thr Ile Ile Ile Ser Gly Ile Ser Lys Thr Ser  
 100                      105                      110  
 Leu Ser Gln Asp His Asp Ala Ala Leu Met Gln Gly Tyr Thr Ala Ser  
 115                      120                      125  
 Val Asp Ser Thr His Gln Glu Asp Ala Pro Ser His Pro Glu Arg Ala  
 130                      135                      140  
 Ala Ala Ser Ala Pro Pro Glu Glu Ala Glu Ser Ala Gln Ala Ser Leu  
 145                      150                      155                      160  
 Ala Pro Lys Pro Gln Glu Asp Glu Leu Asp Ser Trp Asp Leu Glu Lys  
 165                      170                      175  
 Glu Pro Gln Ala Ala Ala Trp Ser Ser Gln Val Leu Leu Asp Pro Asp

180	185	190
Gly Asp Glu Leu Ser Glu Ser Ser Met Ser Val Leu Glu Pro Gly Thr		
195	200	205
Ala Lys Lys His Lys Gly Gly Ile Leu Arg Lys Gly Ala Lys Leu Phe		
210	215	220
Phe Arg Arg Arg His Gln Gln Lys Asp Pro Gly Met Ser Gln Ser His		
225	230	235
Asn Asp Leu Val Phe Leu Glu Gln Pro Glu Gly Ser Arg Arg Lys Gly		
245	250	255
Ile Thr Leu Thr Arg Thr Leu Asn Lys Lys Leu Leu Ser Arg His Arg		
260	265	270
Asn Lys Asn Thr Met Asn Gly Ala Pro Val Glu Pro Cys Thr		
275	280	285

&lt;210&gt; 2927

&lt;211&gt; 272

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2927

Met Phe Glu Asn Leu Asn Thr Ala Leu Thr Pro Lys Leu Gln Ala Ser		
1	5	10
Arg Ser Phe Pro His Leu Ser Lys Pro Val Ala Pro Gly Ser Ala Pro		
20	25	30
Leu Gly Ser Gly Glu Pro Gly Gly Pro Gly Leu Trp Val Gly Ser Ser		
35	40	45
Gln His Leu Lys Asn Leu Gly Lys Ala Met Gly Ala Lys Val Asn Asp		
50	55	60
Phe Leu Arg Arg Lys Glu Pro Ser Ser Leu Gly Ser Val Gly Val Thr		
65	70	75
Glu Ile Asn Lys Thr Ala Gly Ala Gln Leu Ala Ser Gly Thr Asp Ala		
85	90	95
Ala Pro Glu Ala Trp Leu Glu Asp Glu Arg Ser Val Leu Gln Glu Thr		
100	105	110
Phe Pro Arg Leu Asp Pro Pro Pro Pro Ile Thr Arg Lys Arg Thr Pro		

115	120	125
Arg Ala Leu Lys Thr Thr Gln Asp Met Leu Ile Ser Ser Gln Pro Val		
130	135	140
Leu Ser Ser Leu Glu Tyr Gly Thr Glu Pro Ser Pro Gly Gln Ala Gln		
145	150	155
Asp Ser Ala Pro Thr Ala Gln Pro Asp Val Pro Ala Asp Ala Ser Gln		
165	170	175
Pro Glu Ala Thr Met Glu Arg Glu Glu Arg Gly Lys Val Leu Pro Asn		
180	185	190
Gly Glu Val Ser Leu Ser Val Pro Asp Leu Ile His Lys Asp Ser Gln		
195	200	205
Asp Glu Ser Lys Leu Lys Met Thr Glu Cys Arg Arg Ala Ser Ser Pro		
210	215	220
Ser Leu Ile Glu Arg Asn Gly Phe Lys Leu Ser Leu Ser Pro Ile Ser		
225	230	235
Leu Ala Glu Ser Trp Glu Asp Gly Ser Pro Pro Pro Gln Ala Arg Thr		
245	250	255
Ser Ser Leu Asp Asn Glu Gly Pro His Pro Asp Leu Leu Ser Phe Glu		
260	265	270

&lt;210&gt; 2928

&lt;211&gt; 129

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2928

Met Leu Pro Arg Leu Val Ser Asn Ser Trp Pro Gln Ser Asp Pro Pro
1 5 10 15
Ala Trp Ala Phe Gln Ser Ala Gly Ile Thr Gly Val Ser Cys Arg Ala
20 25 30
Arg Pro Gln Leu Phe Leu Val Asn Pro Phe Leu Ser Pro Arg Val Leu
35 40 45
Ala Leu Thr Leu His Ser Arg Phe Ile Gly Ala Cys Ser Lys Pro Gly
50 55 60
Ala Gly Asp Glu Glu Glu Lys Asp Pro Ser Tyr Pro Ser Ile Gly Phe



65                      70                      75                      80  
 Phe Trp Lys Gly Gly Arg Asn Ala Asp Leu Thr Leu Tyr Phe Thr Val  
                          85                      90                      95  
 Ile Cys Asp Leu Cys Tyr Gly Arg Gly Lys His Ser Ala Trp Glu Gln  
                          100                      105                      110  
 Gly Asp Val Ala Ser Ser Pro Gly Ser Gly Arg Gln Gly Thr Val Lys  
                          115                      120                      125  
 Ala

<210> 2929

<211> 553

<212> PRT

<213> Homo sapiens

<400> 2929

Met Asn Lys Asn Thr Ser Thr Val Val Ser Pro Ser Leu Leu Glu Lys  
   1                      5                      10                      15  
 Asp Pro Ala Phe Gln Met Ile Thr Ile Ala Lys Glu Thr Gly Leu Gly  
                          20                      25                      30  
 Leu Lys Val Leu Gly Gly Ile Asn Arg Asn Glu Gly Pro Leu Val Tyr  
                          35                      40                      45  
 Ile Gln Glu Ile Ile Pro Gly Gly Asp Cys Tyr Lys Asp Gly Arg Leu  
                          50                      55                      60  
 Lys Pro Gly Asp Gln Leu Val Ser Val Asn Lys Glu Ser Met Ile Gly  
   65                      70                      75                      80  
 Val Ser Phe Glu Glu Ala Lys Ser Ile Ile Thr Arg Ala Lys Leu Arg  
                          85                      90                      95  
 Leu Glu Ser Ala Trp Glu Ile Ala Phe Ile Arg Gln Lys Ser Asp Asn  
                          100                      105                      110  
 Ile Gln Pro Glu Asn Leu Ser Cys Thr Ser Leu Ile Glu Ala Ser Gly  
                          115                      120                      125  
 Glu Tyr Gly Pro Gln Ala Ser Thr Leu Ser Leu Phe Ser Ser Pro Pro  
                          130                      135                      140  
 Glu Ile Leu Ile Pro Lys Thr Ser Ser Thr Pro Lys Thr Asn Asn Asp

145	150	155	160
Ile Leu Ser Ser Cys Glu Ile Lys Thr Gly Tyr Asn Lys Thr Val Gln			
165	170	175	
Ile Pro Ile Thr Ser Glu Asn Ser Thr Val Gly Leu Ser Asn Thr Asp			
180	185	190	
Val Ala Ser Ala Trp Thr Glu Asn Tyr Gly Leu Gln Glu Lys Ile Ser			
195	200	205	
Leu Asn Pro Ser Val Arg Phe Lys Ala Glu Lys Leu Glu Met Ala Leu			
210	215	220	
Asn Tyr Leu Gly Ile Gln Pro Thr Lys Glu Gln His Gln Ala Leu Arg			
225	230	235	240
Gln Gln Val Gln Ala Asp Ser Lys Gly Thr Val Ser Phe Gly Asp Phe			
245	250	255	
Val Gln Val Ala Arg Asn Leu Phe Cys Leu Gln Leu Asp Glu Val Asn			
260	265	270	
Val Gly Ala His Glu Ile Ser Asn Ile Leu Asp Ser Gln Leu Leu Pro			
275	280	285	
Cys Asp Ser Ser Glu Ala Asp Glu Met Glu Arg Leu Lys Cys Glu Arg			
290	295	300	
Asp Asp Ala Leu Lys Glu Val Asn Thr Leu Lys Glu Lys Leu Leu Glu			
305	310	315	320
Ser Asp Lys Gln Arg Lys Gln Leu Thr Glu Glu Leu Gln Asn Val Lys			
325	330	335	
Gln Glu Ala Lys Ala Val Val Glu Glu Thr Arg Ala Leu Arg Ser Arg			
340	345	350	
Ile His Leu Ala Glu Ala Ala Gln Arg Gln Ala His Gly Met Glu Met			
355	360	365	
Asp Tyr Glu Glu Val Ile Arg Leu Leu Glu Ala Lys Ile Thr Glu Leu			
370	375	380	
Lys Ala Gln Leu Ala Asp Tyr Ser Asp Gln Asn Lys Glu Ser Val Gln			
385	390	395	400
Asp Leu Lys Lys Arg Ile Met Val Leu Asp Cys Gln Leu Arg Lys Ser			
405	410	415	
Glu Met Ala Arg Lys Thr Phe Glu Ala Ser Thr Glu Lys Leu Leu His			
420	425	430	
Phe Val Glu Ala Ile Gln Glu Val Phe Ser Asp Asn Ser Thr Pro Leu			

435                      440                      445  
 Ser Asn Leu Ser Glu Arg Arg Ala Val Leu Ala Ser Gln Thr Ser Leu  
 450                      455                      460  
 Thr Pro Leu Gly Arg Asn Gly Arg Ser Ile Pro Ala Thr Leu Ala Leu  
 465                      470                      475                      480  
 Glu Ser Lys Glu Leu Val Lys Ser Val Arg Ala Leu Leu Asp Met Asp  
 485                      490                      495  
 Cys Leu Pro Tyr Gly Trp Glu Glu Ala Tyr Thr Ala Asp Gly Ile Lys  
 500                      505                      510  
 Tyr Phe Ile Asn His Val Thr Gln Thr Thr Ser Trp Ile His Pro Val  
 515                      520                      525  
 Met Ser Val Leu Asn Leu Ser Arg Ser Glu Glu Asn Glu Glu Asp Cys  
 530                      535                      540  
 Ser Arg Glu Leu Pro Asn Gln Lys Ser  
 545                      550

<210> 2930

<211> 116

<212> PRT

<213> Homo sapiens

<400> 2930

Met Glu Ser Arg Leu Ser Ser Arg Leu Glu Tyr Ser Asp Thr Ile Leu  
 1                      5                      10                      15  
 Ala His Cys Asn Leu His Leu Gln Gly Ser Ser Ser Ser Pro Ala Ser  
 20                      25                      30  
 Ala Ser Gln Val Ala Gly Ile Ile Asp Thr Cys His His Ala Gln Leu  
 35                      40                      45  
 Ile Phe Val Phe Leu Val Glu Met Gly Phe His His Val Gly Gln Ala  
 50                      55                      60  
 Gly Leu Glu Leu Leu Thr Ser Ser Asp Pro Pro Thr Ser Ala Ser Gln  
 65                      70                      75                      80  
 Thr Ala Gly Ile Thr Gly Met Ser His Tyr Thr Gln Pro Leu Phe Ala  
 85                      90                      95  
 Ser Leu Leu Thr Gln Phe Trp Val Pro Gly Lys Thr Phe Pro Glu Val

100 105 110  
 Arg Leu Pro Ser  
 115

<210> 2931

<211> 133

<212> PRT

<213> Homo sapiens

<400> 2931

Met Leu Ser Pro Arg Leu Glu Cys Ser Gly Thr Ile Ser Ala Pro Cys  
 1 5 10 15  
 Ser Leu His Leu Leu Gly Ser Ser Asn Pro Thr Pro Ser Ala Ser Gln  
 20 25 30  
 Val Ala Gly Thr Ala Gly Ala Gly His His Val Gln Leu Ile Phe Val  
 35 40 45  
 Phe Phe Val Asp Met Gly Phe His His Val Ala Gln Ala Gly Leu Glu  
 50 55 60  
 Leu Leu Ser Ser Ser Asp Leu Pro Ala Ser Thr Thr Gln Asn Ala Gly  
 65 70 75 80  
 Ile Thr Val Met Ser Tyr Cys Thr Pro Ser Ser Gly Ile Val Ser Ser  
 85 90 95  
 Glu Val Thr Asn Val Pro Gln Asn His Tyr Ala Met Gln Arg His Ala  
 100 105 110  
 Leu Lys Thr Thr Gly Ser Leu Gly Thr Val Thr His Ala Cys Asn Pro  
 115 120 125  
 Ser Ala Leu Arg Gly  
 130

<210> 2932

<211> 261

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2932

Met Leu Pro Gly Trp Asp Leu Cys Asn Ser Gly Met Ile Lys Asp Tyr  
 1 5 10 15  
 Ser Gly Val Asn Leu Phe Ser Arg Lys Val Leu Asp Leu Ser Asp Lys  
 20 25 30  
 Tyr Thr Ala Thr Leu Pro Asn Gln Val Gly Ile Pro Arg Gly Leu Glu  
 35 40 45  
 Asn Asn Cys Asp Ser Leu Arg Glu Ser Asp Thr Ile Val Tyr Leu Leu  
 50 55 60  
 Ser Arg Leu Phe Leu Val Asn Lys Leu Val Asn Met Pro Leu Glu Leu  
 65 70 75 80  
 Ala Cys Arg Val Gly Ser Ser Phe Arg Met Glu Ser Ile His Asn Lys  
 85 90 95  
 Met Arg Gly Ala Gly Asn Asp Ile Leu Asn Met Ser Ser Phe Tyr Ser  
 100 105 110  
 Cys Leu Arg Asn Gly Lys Asn Glu Ser His Val Pro Glu Ala Asp Leu  
 115 120 125  
 Ser Leu Leu Lys Leu Ile Ser Cys Trp Arg Asp Gln Ser Val Gln Val  
 130 135 140  
 Thr Glu Ala Ile Gln Ala Val Leu Leu Ala Glu Val Gln Gln His Met  
 145 150 155 160  
 Lys Ser Leu Gly Lys Ile Pro Val Asn Ser Gln Pro Val Ser Met Ala  
 165 170 175  
 Glu Asn Gly Asn Cys Glu Met Lys Gln Met Leu Pro Lys Leu Glu Trp  
 180 185 190  
 Thr Glu Glu Leu Glu Leu Gln Cys Val Arg Asn Thr Leu Pro Leu Gln  
 195 200 205  
 Thr Pro Val Ser Pro Val Lys His Asp Ser Asn Ser Asn Ser Ala Asn  
 210 215 220  
 Phe Gln Asp Val Glu Asp Met Pro Asp Arg Cys Ala Leu Glu Glu Ser  
 225 230 235 240  
 Glu Ser Pro Gly Glu Pro Arg His His Ser Trp Ile Ala Lys Val Cys  
 245 250 255  
 Pro Cys Lys Val Ser  
 260

&lt;210&gt; 2933

&lt;211&gt; 1020

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2933

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Met Glu Asn Ile Leu Cys Ile Cys Val His Pro His Ile Phe Gln Gly
  1             5             10            15
Trp Lys Asp Leu Leu Glu Ala Arg Leu Ile Lys His Gln Asp Glu Ile
      20             25            30
Ser Ser Gln Cys Ile Ser Ala Leu Ser Leu Glu Glu Ile Asn Gly Thr
      35             40            45
Ile Leu Lys Leu Lys Ser Val Thr Gln Ser Ser Lys Arg Leu Leu Pro
      50             55            60
Ser Ile Gly Leu Ser Thr Val Leu Leu Lys Lys Glu Glu Asp Ile Met
      65             70            75            80
Thr Ala Leu Glu Ile Ile Cys Glu Asn Glu Cys Glu Gly Thr Leu Leu
      85             90            95
Glu Lys Asp Lys Asn Lys Phe Leu Glu Phe Lys Ala Ser Lys Glu Glu
      100            105            110
Asp Phe Tyr Arg Gly Gly Lys Val Ser Trp Trp Asn Phe Tyr Phe Ser
      115            120            125
Ser Glu Ser Tyr Ser Ser Pro Phe Val Lys Arg Asp Lys Tyr Glu Arg
      130            135            140
Leu Glu Ala Met Ile Gln Asn Cys Ala Asp Ser Ser Lys Pro Thr Ser
      145            150            155            160
Thr Lys Ile Ile His Leu Tyr His His Pro Gly Cys Gly Gly Thr Thr
      165            170            175
Leu Ala Met His Ile Leu Trp Glu Leu Arg Lys Lys Phe Arg Cys Ala
      180            185            190
Val Leu Lys Asn Lys Thr Val Asp Phe Ser Glu Ile Gly Glu Gln Val
      195            200            205
Thr Ser Leu Ile Thr Tyr Gly Ala Met Asn Arg Gln Glu Tyr Val Pro
      210            215            220
Val Leu Leu Leu Val Asp Asp Phe Glu Glu Gln Asp Asn Val Tyr Leu

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225	230	235	240
Leu Gln Tyr Ser Ile Gln Thr Ala Ile Ala Lys Lys Tyr Ile Arg Tyr			
	245	250	255
Glu Lys Pro Leu Val Ile Ile Leu Asn Cys Met Arg Ser Gln Asn Pro			
	260	265	270
Glu Lys Ser Ala Arg Thr Pro Asp Ser Ile Ala Val Ile Gln Gln Leu			
	275	280	285
Ser Pro Lys Glu Gln Arg Ala Phe Glu Leu Lys Leu Lys Glu Ile Lys			
	290	295	300
Glu Gln His Lys Asn Phe Glu Asp Phe Tyr Ser Phe Met Ile Met Lys			
305	310	315	320
Thr Asn Phe Asn Lys Glu Tyr Ile Glu Asn Val Val Arg Asn Ile Leu			
	325	330	335
Lys Gly Gln Asn Ile Phe Thr Lys Glu Ala Lys Leu Phe Ser Phe Leu			
	340	345	350
Ala Leu Leu Asn Ser Tyr Val Pro Asp Thr Thr Ile Ser Leu Ser Gln			
	355	360	365
Cys Glu Lys Phe Leu Gly Ile Gly Asn Lys Lys Ala Phe Trp Gly Thr			
	370	375	380
Glu Lys Phe Glu Asp Lys Met Gly Thr Tyr Ser Thr Ile Leu Ile Lys			
385	390	395	400
Thr Glu Val Ile Glu Cys Gly Asn Tyr Cys Gly Val Arg Ile Ile His			
	405	410	415
Ser Leu Ile Ala Glu Phe Ser Leu Glu Glu Leu Lys Lys Ser Tyr His			
	420	425	430
Leu Asn Lys Ser Gln Ile Met Leu Asp Met Leu Thr Glu Asn Leu Phe			
	435	440	445
Phe Asp Thr Gly Met Gly Lys Ser Lys Phe Leu Gln Asp Met His Thr			
	450	455	460
Leu Leu Leu Thr Arg His Arg Asp Glu His Glu Gly Glu Thr Gly Asn			
465	470	475	480
Trp Phe Ser Pro Phe Ile Glu Ala Leu His Lys Asp Glu Gly Asn Glu			
	485	490	495
Ala Val Glu Ala Val Leu Leu Glu Ser Ile His Arg Phe Asn Pro Asn			
	500	505	510
Ala Phe Ile Cys Gln Ala Leu Ala Arg His Phe Tyr Ile Lys Lys Lys			

515	520	525
Asp Phe Gly Asn Ala Leu Asn Trp Ala Lys Gln Ala Lys Ile Ile Glu		
530	535	540
Pro Asp Asn Ser Tyr Ile Ser Asp Thr Leu Gly Gln Val Tyr Lys Ser		
545	550	555
Lys Ile Arg Trp Trp Ile Glu Glu Asn Gly Gly Asn Gly Asn Ile Ser		
565	570	575
Val Asp Asp Leu Ile Ala Leu Leu Asp Leu Ala Glu His Ala Ser Ser		
580	585	590
Ala Phe Lys Glu Ser Gln Gln Gln Ser Glu Asp Arg Glu Tyr Glu Val		
595	600	605
Lys Glu Arg Leu Tyr Pro Lys Ser Lys Arg Arg Tyr Asp Thr Tyr Asn		
610	615	620
Ile Ala Gly Tyr Gln Gly Glu Ile Glu Val Gly Leu Tyr Thr Ile Gln		
625	630	635
Ile Leu Gln Leu Ile Pro Phe Phe Asp Asn Lys Asn Glu Leu Ser Lys		
645	650	655
Arg Tyr Met Val Asn Phe Val Ser Gly Ser Ser Asp Ile Pro Gly Asp		
660	665	670
Pro Asn Asn Glu Tyr Lys Leu Ala Leu Lys Asn Tyr Ile Pro Cys Leu		
675	680	685
Thr Lys Leu Lys Phe Ser Leu Lys Lys Ser Phe Asp Phe Phe Asp Glu		
690	695	700
Tyr Phe Val Leu Leu Lys Pro Arg Asn Asn Ile Lys Gln Asn Glu Glu		
705	710	715
Ala Lys Thr Arg Arg Lys Val Ala Gly Tyr Phe Lys Lys Tyr Val Asp		
725	730	735
Ile Phe Cys Leu Leu Glu Glu Ser Gln Asn Asn Thr Gly Leu Gly Ser		
740	745	750
Lys Phe Ser Glu Pro Leu Gln Val Glu Arg Cys Arg Arg Asn Leu Val		
755	760	765
Ala Leu Lys Ala Asp Lys Phe Ser Gly Leu Leu Glu Tyr Leu Ile Lys		
770	775	780
Ser Gln Glu Asp Ala Ile Ser Thr Met Lys Cys Ile Val Asn Glu Tyr		
785	790	795
Thr Phe Leu Leu Glu Gln Cys Thr Val Lys Ile Gln Ser Lys Glu Lys		



805	810	815
Leu Asn Phe Ile Leu Ala Asn Ile Ile Leu Ser Cys Ile Gln Pro Thr		
820	825	830
Ser Arg Leu Val Lys Pro Val Glu Lys Leu Lys Asp Gln Leu Arg Glu		
835	840	845
Val Leu Gln Pro Ile Gly Leu Thr Tyr Gln Phe Ser Glu Pro Tyr Phe		
850	855	860
Leu Ala Ser Leu Leu Phe Trp Pro Glu Asn Gln Gln Leu Asp Gln His		
865	870	875
Ser Glu Gln Met Lys Glu Tyr Ala Gln Ala Leu Lys Asn Ser Phe Lys		
885	890	895
Gly Gln Tyr Lys His Met His Arg Thr Lys Gln Pro Ile Ala Tyr Phe		
900	905	910
Phe Leu Gly Lys Gly Lys Arg Leu Glu Arg Leu Val His Lys Gly Lys		
915	920	925
Ile Asp Gln Cys Phe Lys Lys Thr Pro Asp Ile Asn Ser Leu Trp Gln		
930	935	940
Ser Gly Asp Val Trp Lys Glu Glu Lys Val Gln Glu Leu Leu Leu Arg		
945	950	955
Leu Gln Gly Arg Ala Glu Asn Asn Cys Leu Tyr Ile Glu Tyr Gly Ile		
965	970	975
Asn Glu Lys Ile Thr Ile Pro Ile Thr Pro Ala Phe Leu Gly Gln Leu		
980	985	990
Arg Ser Gly Arg Ser Ile Glu Lys Val Ser Phe Tyr Leu Gly Phe Ser		
995	1000	1005
Ile Gly Gly Pro Leu Ala Tyr Asp Ile Glu Ile Val		
1010	1015	1020

&lt;210&gt; 2934

&lt;211&gt; 220

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2934

Met	Glu	Asp	Gln	Met	Asn	Glu	Met	Lys	Cys	Glu	Glu	Lys	Phe	Arg	Glu
1				5				10					15		
Lys	Arg	Ile	Lys	Arg	Asn	Glu	Gln	Ser	Leu	Gln	Glu	Ile	Trp	Asp	Tyr
			20					25					30		
Val	Lys	Arg	Pro	Asn	Leu	Arg	Leu	Ile	Ala	Val	Pro	Glu	Ser	Asp	Gly
			35					40					45		
Glu	Asn	Gly	Thr	Lys	Leu	Glu	Asn	Thr	Leu	Arg	Asp	Ile	Ile	Gln	Glu
			50					55					60		
Asn	Phe	Pro	Pro	Asp	Asn	Leu	Val	Arg	Gln	Ala	Asn	Ile	Gln	Ile	Gln
65						70					75				80
Glu	Ile	Gln	Arg	Thr	Pro	Gln	Arg	Tyr	Pro	Pro	Arg	Arg	Ala	Thr	Pro
						85					90				95
Arg	His	Ile	Ile	Val	Arg	Phe	Thr	Lys	Val	Glu	Met	Lys	Glu	Lys	Ile
				100							105				110
Leu	Arg	Val	Ala	Arg	Glu	Gln	Gly	Arg	Val	Thr	His	Lys	Gly	Lys	Arg
			115					120					125		
Ile	Arg	Gln	Thr	Ala	Asp	Leu	Ser	Ala	Glu	Thr	Leu	Lys	Ala	Arg	Arg
			130					135					140		
Glu	Trp	Gly	Pro	Ile	Phe	Asn	Ile	Leu	Lys	Glu	Gln	Asn	Phe	Gln	Ala
145						150					155				160
Arg	Ile	Ser	Tyr	Pro	Ala	Lys	Leu	Ser	Phe	Ile	Ser	Glu	Gly	Glu	Ile
						165					170				175
Lys	Cys	Phe	Thr	Asn	Lys	Gln	Met	Leu	Arg	Asp	Phe	Val	Thr	Thr	Arg
						180					185				190
Pro	Ala	Ala	Lys	Glu	Leu	Leu	Lys	Glu	Ala	Leu	Asn	Met	Glu	Arg	Asn
			195					200					205		
Asn	Trp	Tyr	Gln	Pro	Leu	Gln	Lys	His	Ala	Lys	Leu				
			210					215					220		

&lt;210&gt; 2935

&lt;211&gt; 118

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2935

Met Arg Lys Cys Thr Lys Gly Gln Ser Leu Pro Ile Phe Thr Pro Arg  
 1 5 10 15  
 Lys Glu Asn Tyr Ile Ile Asp Lys Leu Ile Asn Leu Phe Tyr Val Phe  
 20 25 30  
 Ile Tyr Tyr Phe Ala Leu Ser Ser Arg Leu Glu Cys Thr Gly Ala Ile  
 35 40 45  
 Ser Thr His Cys Asn Leu Leu Leu Pro Gly Ser Ser Asn Ser Thr Ser  
 50 55 60  
 Ala Ser Leu Val Thr Gly Thr Thr Gly Val His His His Ala Gln Leu  
 65 70 75 80  
 Ile Phe Val Phe Ile Val Glu Thr Gly Phe His His Val Gly Gln Pro  
 85 90 95  
 Gly Leu Lys Leu Leu Thr Ser Gly Asp Met Pro Thr Ser Ala Ser Gln  
 100 105 110  
 Met Leu Gly Leu Gln Val  
 115

<210> 2936

<211> 708

<212> PRT

<213> Homo sapiens

<400> 2936

Met Arg Glu Arg Ile Trp Ala Pro Pro Leu Leu Leu Leu Pro Leu  
 1 5 10 15  
 Leu Leu Pro Pro Pro Leu Trp Gly Gly Pro Pro Asp Ser Pro Arg Arg  
 20 25 30  
 Glu Leu Glu Leu Glu Pro Gly Pro Leu Gln Pro Phe Asp Leu Leu Tyr  
 35 40 45  
 Ala Ser Gly Ala Ala Ala Tyr Tyr Ser Gly Asp Tyr Glu Arg Ala Val  
 50 55 60  
 Arg Asp Leu Glu Ala Ala Leu Arg Ser His Arg Arg Leu Arg Glu Ile  
 65 70 75 80  
 Arg Thr Arg Cys Ala Arg His Cys Ala Ala Arg His Pro Leu Pro Pro

	85		90		95										
Pro	Pro	Pro	Gly	Glu	Gly	Pro	Gly	Ala	Glu	Leu	Pro	Leu	Phe	Arg	Ser
	100		105		110										
Leu	Leu	Gly	Arg	Ala	Arg	Cys	Tyr	Arg	Ser	Cys	Glu	Thr	Gln	Arg	Leu
	115		120		125										
Gly	Gly	Pro	Ala	Ser	Arg	His	Arg	Val	Ser	Glu	Asp	Val	Arg	Ser	Asp
	130		135		140										
Phe	Gln	Arg	Arg	Val	Pro	Tyr	Asn	Tyr	Leu	Gln	Arg	Ala	Tyr	Ile	Lys
145			150		155										160
Leu	Asn	Gln	Leu	Glu	Lys	Ala	Val	Glu	Ala	Ala	His	Thr	Phe	Phe	Val
	165		170		175										
Ala	Asn	Pro	Glu	His	Met	Glu	Met	Gln	Gln	Asn	Ile	Glu	Asn	Tyr	Arg
	180		185		190										
Ala	Thr	Ala	Gly	Val	Glu	Ala	Leu	Gln	Leu	Val	Asp	Arg	Glu	Ala	Lys
	195		200		205										
Pro	His	Met	Glu	Ser	Tyr	Asn	Ala	Gly	Val	Lys	His	Tyr	Glu	Ala	Asp
	210		215		220										
Asp	Phe	Glu	Met	Ala	Ile	Arg	His	Phe	Glu	Gln	Ala	Leu	Arg	Glu	Tyr
225			230		235										240
Phe	Val	Glu	Asp	Thr	Glu	Cys	Arg	Thr	Leu	Cys	Glu	Gly	Pro	Gln	Arg
	245		250		255										
Phe	Glu	Glu	Tyr	Glu	Tyr	Leu	Gly	Tyr	Lys	Ala	Gly	Leu	Tyr	Glu	Ala
	260		265		270										
Ile	Ala	Asp	His	Tyr	Met	Gln	Val	Leu	Val	Cys	Gln	His	Glu	Cys	Val
	275		280		285										
Arg	Glu	Leu	Ala	Thr	Arg	Pro	Gly	Arg	Leu	Ser	Pro	Ile	Glu	Asn	Phe
	290		295		300										
Leu	Pro	Leu	His	Tyr	Asp	Tyr	Leu	Gln	Phe	Ala	Tyr	Tyr	Arg	Val	Gly
305			310		315										320
Glu	Tyr	Val	Lys	Ala	Leu	Glu	Cys	Ala	Lys	Ala	Tyr	Leu	Leu	Cys	His
	325		330		335										
Pro	Asp	Asp	Glu	Asp	Val	Leu	Asp	Asn	Val	Asp	Tyr	Tyr	Glu	Ser	Leu
	340		345		350										
Leu	Asp	Asp	Ser	Ile	Asp	Pro	Ala	Ser	Ile	Glu	Ala	Arg	Glu	Asp	Leu
	355		360		365										
Thr	Met	Phe	Val	Lys	Arg	His	Lys	Leu	Glu	Ser	Glu	Leu	Ile	Lys	Ser

370	375	380	
Ala Ala Glu Gly Leu Gly Phe Ser Tyr Thr Glu Pro Asn Tyr Trp Ile			
385	390	395	400
Arg Tyr Gly Gly Arg Gln Asp Glu Asn Arg Val Pro Ser Gly Val Asn			
405	410	415	
Val Glu Gly Ala Glu Val His Gly Phe Ser Met Gly Lys Lys Leu Ser			
420	425	430	
Pro Lys Ile Asp Arg Asp Leu Arg Glu Gly Gly Pro Leu Leu Tyr Glu			
435	440	445	
Asn Ile Thr Phe Val Tyr Asn Ser Glu Gln Leu Asn Gly Thr Gln Arg			
450	455	460	
Val Leu Leu Asp Asn Val Leu Ser Glu Glu Gln Cys Arg Glu Leu His			
465	470	475	480
Ser Val Ala Ser Gly Ile Met Leu Val Gly Asp Gly Tyr Arg Gly Lys			
485	490	495	
Thr Ser Pro His Thr Pro Asn Glu Lys Phe Glu Gly Ala Thr Val Leu			
500	505	510	
Lys Ala Leu Lys Ser Gly Tyr Glu Gly Arg Val Pro Leu Lys Ser Ala			
515	520	525	
Arg Leu Phe Tyr Asp Ile Ser Glu Lys Ala Arg Arg Ile Val Glu Ser			
530	535	540	
Tyr Phe Met Leu Asn Ser Thr Leu Tyr Phe Ser Tyr Thr His Met Val			
545	550	555	560
Cys Arg Thr Ala Leu Ser Gly Gln Gln Asp Arg Arg Asn Asp Leu Ser			
565	570	575	
His Pro Ile His Ala Asp Asn Cys Leu Leu Asp Pro Glu Ala Asn Glu			
580	585	590	
Cys Trp Lys Glu Pro Pro Ala Tyr Thr Phe Arg Asp Tyr Ser Ala Leu			
595	600	605	
Leu Tyr Met Asn Asp Asp Phe Glu Gly Gly Glu Phe Ile Phe Thr Glu			
610	615	620	
Met Asp Ala Lys Thr Val Thr Ala Ser Ile Lys Pro Lys Cys Gly Arg			
625	630	635	640
Met Ile Ser Phe Ser Ser Gly Gly Glu Asn Pro His Gly Val Lys Ala			
645	650	655	
Val Thr Lys Gly Lys Arg Cys Ala Val Ala Leu Trp Phe Thr Leu Asp			

660                      665                      670  
 Pro Leu Tyr Arg Glu Leu Glu Arg Ile Gln Ala Asp Glu Val Ile Ala  
 675                      680                      685  
 Ile Leu Asp Gln Glu Gln Gln Gly Lys His Glu Leu Asn Ile Asn Pro  
 690                      695                      700  
 Lys Asp Glu Leu  
 705

<210> 2937

<211> 120

<212> PRT

<213> Homo sapiens

<400> 2937

Met Ser Leu Arg Arg Leu Cys Gly Pro Gln Gln Ala Gly Gly Leu Thr  
 1                      5                      10                      15  
 Trp Glu Gln Arg Leu Gln Gly Trp His Leu His Thr Ile Pro Leu His  
 20                      25                      30  
 Arg Ala Phe Leu Arg Phe Leu Ser Val Val Gly Ile Leu Pro Pro Gln  
 35                      40                      45  
 Leu Ala Ala Pro Cys Leu Leu Trp Leu His Thr Gly Ser Leu Gly Asn  
 50                      55                      60  
 Phe Lys Lys Ala Leu Met Pro Gly Leu His Phe Gly Gln Tyr Asn Gln  
 65                      70                      75                      80  
 Ser Leu Arg Ala Ala Leu Gly Gly Gly Val Cys Gly Val Ser Trp Thr  
 85                      90                      95  
 His Thr Leu Pro Ala Ser Gly Ser Ser Asp Arg Val Leu Arg Thr Ala  
 100                      105                      110  
 Glu Tyr Leu Glu Val Ser Ser Ser  
 115                      120

<210> 2938

<211> 178

<212> PRT

<213> Homo sapiens

<400> 2938

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Met Gln Leu Arg Ala Arg Gln Cys Thr Pro Asn Ala Gly Gly Val Thr
  1              5              10              15
Pro Ala Gln Phe His Leu Leu Leu His Asp Val Leu Leu Thr Gln Ser
      20              25              30
Pro Thr Thr Gly Leu Trp Ala Ala Pro Phe Leu Thr Ser Thr Val Leu
      35              40              45
Met Asp Thr Asp Ala Ser Pro Ser Gly Glu Asp Thr Val Arg Ala Ser
      50              55              60
Leu Ser His Ala Phe Leu Ser Leu Thr Ala Arg Ser Gln Pro Pro Thr
      65              70              75              80
Lys Pro Ser Leu Ser Ala Ser Gln Ala Ala Met Cys Gln Val Ser Leu
      85              90              95
Pro Arg Leu Ser Trp Lys Ala Leu Leu Cys Thr Asn Leu Pro Ala Leu
      100             105             110
Gly Ile Ser Gln Pro Ser Ser Phe Tyr Gln Ser Asp Gly Cys Lys Gly
      115             120             125
Asn Ser Cys Val Leu Leu Cys Ile Ser Leu Ile Pro Val Gly Leu Ser
      130             135             140
Ser Ser Ser Leu Asn Cys Val Ser Phe Ala Leu Ser Leu Leu Gly Ile
      145             150             155             160
Val Cys Trp Gly Trp Leu Ser Val Asn Leu Asn Arg Ser Lys Leu Gly
      165             170             175
Tyr Phe

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<210> 2939

<211> 1330

<212> PRT

<213> Homo sapiens

<400> 2939

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Met Pro Leu Ser Pro Pro Ala Gln Gly Asp Pro Gly Glu Pro Ser Pro

```

1	5	10	15
Cys Arg Pro Pro Lys Lys His Thr Thr Phe His Leu Trp Arg Ser Lys			
20	25	30	
Lys Lys Gln Gln Pro Ala Pro Pro Asp Cys Gly Val Phe Val Pro His			
35	40	45	
Pro Leu Pro Ala Pro Ala Gly Glu Ala Arg Ala Leu Asp Val Val Asp			
50	55	60	
Gly Lys Tyr Val Val Arg Asp Ser Gln Glu Phe Pro Leu His Cys Gly			
65	70	75	80
Glu Ser Gln Phe Phe His Thr Thr Ser Glu Ala Leu Gly Ser Leu Leu			
85	90	95	
Leu Glu Ser Gly Ile Phe Lys Lys Ser Arg Ala Gln Pro Pro Glu Asp			
100	105	110	
Asn Arg Arg Lys Pro Val Leu Gly Lys Leu Gly Thr Leu Phe Thr Ala			
115	120	125	
Gly Arg Arg Arg Asn Ser Arg Asn Gly Leu Glu Ser Pro Thr Arg Ser			
130	135	140	
Asn Ala Lys Pro Leu Ser Pro Lys Asp Val Val Ala Ser Pro Lys Leu			
145	150	155	160
Pro Glu Arg Glu Ser Glu Arg Ser Arg Ser Gln Ser Ser Gln Leu Lys			
165	170	175	
Gln Thr Asp Thr Ser Glu Glu Gly Ser Pro Arg Glu Asn Pro Arg Glu			
180	185	190	
Ala Glu Gly Glu Leu Pro Glu Ser Gly Gly Pro Ala Ala Pro Pro Asp			
195	200	205	
Ala Glu Leu Ser Pro Arg Trp Ser Ser Ser Ala Ala Ala Val Ala Val			
210	215	220	
Gln Gln Cys His Glu Asn Asp Ser Pro Gln Leu Glu Pro Leu Glu Ala			
225	230	235	240
Glu Gly Glu Pro Phe Pro Asp Ala Thr Thr Thr Ala Lys Gln Leu His			
245	250	255	
Ser Ser Pro Gly Asn Ser Ser Arg Gln Glu Asn Ala Glu Thr Pro Ala			
260	265	270	
Arg Ser Pro Gly Glu Asp Ala Ser Pro Gly Ala Gly His Glu Gln Glu			
275	280	285	
Ala Phe Leu Gly Val Arg Gly Ala Pro Gly Ser Pro Thr Gln Glu Arg			



290	295	300	
Pro Ala Gly Gly Leu Gly Glu Ala Pro Asn Gly Ala Pro Ser Val Cys			
305	310	315	320
Ala Glu Glu Gly Ser Leu Gly Pro Arg Asn Ala Arg Ser Gln Pro Arg			
	325	330	335
Lys Gly Ala Ser Asp Leu Pro Gly Glu Pro Pro Ala Glu Gly Ala Ala			
	340	345	350
His Thr Ala Ser Ser Ala Gln Ala Asp Cys Thr Ala Arg Pro Lys Gly			
	355	360	365
His Ala His Pro Ala Lys Val Leu Thr Leu Asp Ile Tyr Leu Ser Lys			
	370	375	380
Thr Glu Gly Ala Gln Val Asp Glu Pro Val Val Ile Thr Pro Arg Ala			
385	390	395	400
Glu Asp Cys Gly Asp Trp Asp Asp Met Glu Lys Arg Ser Ser Gly Arg			
	405	410	415
Arg Ser Gly Arg Arg Arg Gly Ser Gln Lys Ser Thr Asp Ser Pro Gly			
	420	425	430
Ala Asp Ala Glu Leu Pro Glu Ser Ala Ala Arg Asp Asp Ala Val Phe			
	435	440	445
Asp Asp Glu Val Ala Pro Asn Ala Ala Ser Asp Asn Ala Ser Ala Glu			
	450	455	460
Lys Lys Val Lys Ser Pro Arg Ala Ala Leu Asp Gly Gly Val Ala Ser			
465	470	475	480
Ala Ala Ser Pro Glu Ser Lys Pro Ser Pro Gly Thr Lys Gly Gln Leu			
	485	490	495
Arg Gly Glu Ser Asp Arg Ser Lys Gln Pro Pro Pro Ala Ser Ser Pro			
	500	505	510
Thr Lys Arg Lys Gly Arg Ser Arg Ala Leu Glu Ala Val Pro Ala Pro			
	515	520	525
Pro Ala Ser Gly Pro Arg Ala Pro Ala Lys Glu Ser Pro Pro Lys Arg			
	530	535	540
Val Pro Asp Pro Ser Pro Val Thr Lys Gly Thr Ala Ala Glu Ser Gly			
545	550	555	560
Glu Glu Ala Ala Arg Ala Ile Pro Arg Glu Leu Pro Val Lys Ser Ser			
	565	570	575
Ser Leu Leu Pro Glu Ile Lys Pro Glu His Lys Arg Gly Pro Leu Pro			

580	585	590
Asn His Phe Asn Gly Arg Ala Glu Gly Gly Arg Ser Arg Glu Leu Gly		
595	600	605
Arg Ala Ala Gly Ala Pro Gly Ala Ser Asp Ala Asp Gly Leu Lys Pro		
610	615	620
Arg Asn His Phe Gly Val Gly Arg Ser Thr Val Thr Thr Lys Val Thr		
625	630	635
Leu Pro Ala Lys Pro Lys His Val Glu Leu Asn Leu Lys Thr Pro Lys		
645	650	655
Asn Leu Asp Ser Leu Gly Asn Glu His Asn Pro Phe Ser Gln Pro Val		
660	665	670
His Lys Gly Asn Thr Ala Thr Lys Ile Ser Leu Phe Glu Asn Lys Arg		
675	680	685
Thr Asn Ser Ser Pro Arg His Thr Asp Ile Arg Gly Gln Arg Asn Thr		
690	695	700
Pro Ala Ser Ser Lys Thr Phe Val Gly Arg Ala Lys Leu Asn Leu Ala		
705	710	715
Lys Lys Ala Lys Glu Met Glu Gln Pro Glu Lys Lys Val Met Pro Asn		
725	730	735
Ser Pro Gln Asn Gly Val Leu Val Lys Glu Thr Ala Ile Glu Thr Lys		
740	745	750
Val Thr Val Ser Glu Glu Glu Ile Leu Pro Ala Thr Arg Gly Met Asn		
755	760	765
Gly Asp Ser Ser Glu Asn Gln Ala Leu Gly Pro Gln Pro Asn Gln Asp		
770	775	780
Asp Lys Ala Asp Val Gln Thr Asp Ala Gly Cys Leu Ser Glu Pro Val		
785	790	795
Ala Ser Ala Leu Ile Pro Val Lys Asp His Lys Leu Leu Glu Lys Glu		
805	810	815
Asp Ser Glu Ala Ala Asp Ser Lys Ser Leu Val Leu Glu Asn Val Thr		
820	825	830
Asp Thr Ala Gln Asp Ile Pro Thr Thr Val Asp Thr Lys Asp Leu Pro		
835	840	845
Pro Thr Ala Met Pro Lys Pro Gln His Thr Phe Ser Asp Ser Gln Ser		
850	855	860

Pro Ala Glu Ser Ser Pro Gly Pro Ser Leu Ser Leu Ser Ala Pro Ala  
 865 870 875 880  
 Pro Gly Asp Val Pro Lys Asp Thr Cys Val Gln Ser Pro Ile Ser Ser  
 885 890 895  
 Phe Pro Cys Thr Asp Leu Lys Val Ser Glu Asn His Lys Gly Cys Val  
 900 905 910  
 Leu Pro Val Ser Arg Gln Asn Asn Glu Lys Met Pro Leu Leu Glu Leu  
 915 920 925  
 Gly Gly Glu Thr Thr Pro Pro Leu Ser Thr Glu Arg Ser Pro Glu Ala  
 930 935 940  
 Val Gly Ser Glu Cys Pro Ser Arg Val Leu Val Gln Val Arg Ser Phe  
 945 950 955 960  
 Val Leu Pro Val Glu Ser Thr Gln Asp Val Ser Ser Gln Val Ile Pro  
 965 970 975  
 Glu Ser Ser Glu Val Arg Glu Val Gln Leu Pro Thr Cys His Ser Asn  
 980 985 990  
 Glu Pro Glu Val Val Ser Val Ala Ser Cys Ala Pro Pro Gln Glu Glu  
 995 1000 1005  
 Val Leu Gly Asn Glu His Ser His Cys Thr Ala Glu Leu Ala Ala Lys  
 1010 1015 1020  
 Ser Gly Pro Gln Val Ile Pro Pro Ala Ser Glu Lys Thr Leu Pro Ile  
 1025 1030 1035 1040  
 Gln Ala Gln Ser Gln Gly Ser Arg Thr Pro Leu Met Ala Glu Ser Ser  
 1045 1050 1055  
 Pro Thr Asn Ser Pro Ser Ser Gly Asn His Leu Ala Thr Pro Gln Arg  
 1060 1065 1070  
 Pro Asp Gln Thr Val Thr Asn Gly Gln Asp Ser Pro Ala Ser Leu Leu  
 1075 1080 1085  
 Asn Ile Ser Ala Gly Ser Asp Asp Ser Val Phe Asp Ser Ser Ser Asp  
 1090 1095 1100  
 Met Glu Lys Phe Thr Glu Ile Ile Lys Gln Met Asp Ser Ala Val Cys  
 1105 1110 1115 1120  
 Met Pro Met Lys Arg Lys Lys Ala Arg Met Pro Asn Ser Pro Ala Pro  
 1125 1130 1135  
 His Phe Ala Met Pro Pro Ile His Glu Asp His Leu Glu Lys Val Phe  
 1140 1145 1150

Asp Pro Lys Val Phe Thr Phe Gly Leu Gly Lys Lys Lys Glu Ser Gln  
 1155 1160 1165  
 Pro Glu Met Ser Pro Ala Leu His Leu Met Gln Asn Leu Asp Thr Lys  
 1170 1175 1180  
 Ser Lys Leu Arg Pro Lys Arg Ala Ser Ala Glu Gln Ser Val Leu Phe  
 1185 1190 1195 1200  
 Lys Ser Leu His Thr Asn Thr Asn Gly Asn Ser Glu Pro Leu Val Met  
 1205 1210 1215  
 Pro Glu Ile Asn Asp Lys Glu Asn Arg Asp Val Thr Asn Gly Gly Ile  
 1220 1225 1230  
 Lys Arg Ser Arg Leu Glu Lys Ser Ala Leu Phe Ser Ser Leu Leu Ser  
 1235 1240 1245  
 Ser Leu Pro Gln Asp Lys Ile Phe Ser Pro Ser Val Thr Ser Val Asn  
 1250 1255 1260  
 Thr Met Thr Thr Ala Phe Ser Thr Ser Gln Asn Gly Ser Leu Ser Gln  
 1265 1270 1275 1280  
 Ser Ser Val Ser Gln Pro Thr Thr Glu Gly Ala Pro Pro Cys Gly Leu  
 1285 1290 1295  
 Asn Lys Glu Gln Ser Asn Leu Leu Pro Asp Asn Ser Leu Lys Val Phe  
 1300 1305 1310  
 Asn Phe Asn Ser Ser Ser Thr Ser His Ser Ser Leu Lys Ser Pro Ser  
 1315 1320 1325  
 His Met  
 1330

<210> 2940

<211> 959

<212> PRT

<213> Homo sapiens

<400> 2940

Met Gly Gly Gly Ser Gly Glu Glu Gln Leu Tyr Ala Asp Phe Pro Glu  
 1 5 10 15  
 Leu Asp Leu Ser Gln Leu Asp Ala Ser Asp Phe Asp Ser Ala Thr Cys  
 20 25 30



Pro Gly Arg Pro Ser Ser Val Glu Glu Val Arg Ile Ala Ala Ser Pro  
 325 330 335  
 Lys Ser Thr Gly Pro Arg Pro Ser Leu Arg Pro Leu Arg Leu Glu Val  
 340 345 350  
 Lys Arg Glu Val Arg Arg Pro Ala Arg Leu Gln Gln Gln Glu Glu Glu  
 355 360 365  
 Asp Glu Glu Glu Glu Glu Glu Glu Glu Glu Glu Lys Glu Glu Glu  
 370 375 380  
 Glu Glu Trp Gly Arg Lys Arg Pro Gly Arg Gly Leu Pro Trp Thr Lys  
 385 390 395 400  
 Leu Gly Arg Lys Leu Glu Ser Ser Val Cys Pro Val Arg Arg Ser Arg  
 405 410 415  
 Arg Leu Asn Pro Glu Leu Gly Pro Trp Leu Thr Phe Ala Asp Glu Pro  
 420 425 430  
 Leu Val Pro Ser Glu Pro Gln Gly Ala Leu Pro Ser Leu Cys Leu Ala  
 435 440 445  
 Pro Lys Ala Tyr Asp Val Glu Arg Glu Leu Gly Ser Pro Thr Asp Glu  
 450 455 460  
 Asp Ser Gly Gln Asp Gln Gln Leu Leu Arg Gly Pro Gln Ile Pro Ala  
 465 470 475 480  
 Leu Glu Ser Pro Cys Glu Ser Gly Cys Gly Asp Met Asp Glu Asp Pro  
 485 490 495  
 Ser Cys Pro Gln Leu Pro Pro Arg Asp Ser Pro Arg Cys Leu Met Leu  
 500 505 510  
 Ala Leu Ser Gln Ser Asp Pro Thr Phe Gly Lys Lys Ser Phe Glu Gln  
 515 520 525  
 Thr Leu Thr Val Glu Leu Cys Gly Thr Ala Gly Leu Thr Pro Pro Thr  
 530 535 540  
 Thr Pro Pro Tyr Lys Pro Thr Glu Glu Asp Pro Phe Lys Pro Asp Ile  
 545 550 555 560  
 Lys His Ser Leu Gly Lys Glu Ile Ala Leu Ser Leu Pro Ser Pro Glu  
 565 570 575  
 Gly Leu Ser Leu Lys Ala Thr Pro Gly Ala Ala His Lys Leu Pro Lys  
 580 585 590  
 Lys His Pro Glu Arg Ser Glu Leu Leu Ser His Leu Arg His Ala Thr  
 595 600 605

Ala Gln Pro Ala Ser Gln Ala Gly Gln Lys Arg Pro Phe Ser Cys Ser  
 610 615 620  
 Phe Gly Asp His Asp Tyr Cys Gln Val Leu Arg Pro Glu Gly Val Leu  
 625 630 635 640  
 Gln Arg Lys Val Leu Arg Ser Trp Glu Pro Ser Gly Val His Leu Glu  
 645 650 655  
 Asp Trp Pro Gln Gln Gly Ala Pro Trp Ala Glu Ala Gln Ala Pro Gly  
 660 665 670  
 Arg Glu Glu Asp Arg Ser Cys Asp Ala Gly Ala Pro Pro Lys Asp Ser  
 675 680 685  
 Thr Leu Leu Arg Asp His Glu Ile Arg Ala Ser Leu Thr Lys His Phe  
 690 695 700  
 Gly Leu Leu Glu Thr Ala Leu Glu Glu Glu Asp Leu Ala Ser Cys Lys  
 705 710 715 720  
 Ser Pro Glu Tyr Asp Thr Val Phe Glu Asp Ser Ser Ser Ser Ser Gly  
 725 730 735  
 Glu Ser Ser Phe Leu Pro Glu Glu Glu Glu Glu Glu Gly Glu Glu Glu  
 740 745 750  
 Glu Glu Asp Asp Glu Glu Glu Asp Ser Gly Val Ser Pro Thr Cys Ser  
 755 760 765  
 Asp His Cys Pro Tyr Gln Ser Pro Pro Ser Lys Ala Asn Arg Gln Leu  
 770 775 780  
 Cys Ser Arg Ser Arg Ser Ser Ser Gly Ser Ser Pro Cys His Ser Trp  
 785 790 795 800  
 Ser Pro Ala Thr Arg Arg Asn Phe Arg Cys Glu Ser Arg Gly Pro Cys  
 805 810 815  
 Ser Asp Arg Thr Pro Ser Ile Arg His Ala Arg Lys Arg Arg Glu Lys  
 820 825 830  
 Ala Ile Gly Glu Gly Arg Val Val Tyr Ile Gln Asn Leu Ser Ser Asp  
 835 840 845  
 Met Ser Ser Arg Glu Leu Lys Arg Arg Phe Glu Val Phe Gly Glu Ile  
 850 855 860  
 Glu Glu Cys Glu Val Leu Thr Arg Asn Arg Arg Gly Glu Lys Tyr Gly  
 865 870 875 880  
 Phe Ile Thr Tyr Arg Cys Ser Glu His Ala Ala Leu Ser Leu Thr Lys  
 885 890 895

Gly Ala Ala Leu Arg Lys Arg Asn Glu Pro Ser Phe Gln Leu Ser Tyr  
                   900                  905                  910  
 Gly Gly Leu Arg His Phe Cys Trp Pro Arg Tyr Thr Asp Tyr Asp Ser  
                   915                  920                  925  
 Asn Ser Glu Glu Ala Leu Pro Ala Ser Gly Lys Ser Lys Tyr Glu Ala  
                   930                  935                  940  
 Met Asp Phe Asp Ser Leu Leu Lys Glu Ala Gln Gln Ser Leu His  
 945                  950                  955

<210> 2941

<211> 393

<212> PRT

<213> Homo sapiens

<400> 2941

Met Ala Glu Leu Arg Gln Val Pro Gly Gly Arg Glu Thr Pro Gln Gly  
   1                  5                  10                  15  
 Glu Leu Arg Pro Glu Val Val Glu Asp Glu Val Pro Arg Ser Pro Val  
                   20                  25                  30  
 Ala Glu Glu Pro Gly Gly Gly Gly Ser Ser Ser Ser Glu Ala Lys Leu  
                   35                  40                  45  
 Ser Pro Arg Glu Glu Glu Glu Leu Asp Pro Arg Ile Gln Glu Glu Leu  
                   50                  55                  60  
 Glu His Leu Asn Gln Ala Ser Glu Glu Ile Asn Gln Val Glu Leu Gln  
   65                  70                  75                  80  
 Leu Asp Glu Ala Arg Thr Thr Tyr Arg Arg Ile Leu Gln Glu Ser Ala  
                   85                  90                  95  
 Arg Lys Leu Asn Thr Gln Gly Ser His Leu Gly Ser Cys Ile Glu Lys  
                   100                  105                  110  
 Ala Arg Pro Tyr Tyr Glu Ala Arg Arg Leu Ala Lys Glu Ala Gln Gln  
                   115                  120                  125  
 Glu Thr Gln Lys Ala Ala Leu Arg Tyr Glu Arg Ala Val Ser Met His  
                   130                  135                  140  
 Asn Ala Ala Arg Glu Met Val Phe Val Ala Glu Gln Gly Val Met Ala  
 145                  150                  155                  160



Asp Lys Asn Arg Leu Asp Pro Thr Trp Gln Glu Met Leu Asn His Ala  
                   165                  170                  175  
 Thr Cys Lys Val Asn Glu Ala Glu Glu Glu Arg Leu Arg Gly Glu Arg  
                   180                  185                  190  
 Glu His Gln Arg Val Thr Arg Leu Cys Gln Gln Ala Glu Ala Arg Val  
                   195                  200                  205  
 Gln Ala Leu Gln Lys Thr Leu Arg Arg Ala Ile Gly Lys Ser Arg Pro  
                   210                  215                  220  
 Tyr Phe Glu Leu Lys Ala Gln Phe Ser Gln Ile Leu Glu Glu His Lys  
 225                  230                  235                  240  
 Ala Lys Val Thr Glu Leu Glu Gln Gln Val Ala Gln Ala Lys Thr Arg  
                   245                  250                  255  
 Tyr Ser Val Ala Leu Arg Asn Leu Glu Gln Ile Ser Glu Gln Ile His  
                   260                  265                  270  
 Ala Arg Arg Arg Gly Gly Leu Pro Pro His Pro Leu Gly Pro Arg Arg  
                   275                  280                  285  
 Ser Ser Pro Val Gly Ala Glu Ala Gly Pro Glu Asp Met Glu Asp Gly  
                   290                  295                  300  
 Asp Ser Gly Ile Glu Gly Ala Glu Gly Ala Gly Leu Glu Glu Gly Ser  
 305                  310                  315                  320  
 Ser Leu Gly Pro Gly Pro Ala Pro Asp Thr Asp Thr Leu Ser Leu Leu  
                   325                  330                  335  
 Ser Leu Arg Thr Val Ala Ser Asp Leu Gln Lys Cys Asp Ser Val Glu  
                   340                  345                  350  
 His Leu Arg Gly Leu Ser Asp His Val Ser Leu Asp Gly Gln Glu Leu  
                   355                  360                  365  
 Gly Thr Arg Ser Gly Gly Arg Arg Gly Ser Asp Gly Gly Ala Arg Gly  
                   370                  375                  380  
 Gly Arg His Gln Arg Ser Val Ser Leu  
 385                  390

&lt;210&gt; 2942

&lt;211&gt; 142

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2942

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Met Gly Ser Trp Ala Phe His Ile Thr Pro Phe Leu Leu Arg Leu Ser
 1              5              10              15
Glu Ser His Arg Pro Phe Pro Trp Ile Ser Phe Gly Ala Lys Lys Gln
              20              25              30
Arg Ser Phe Val Phe Val Phe Ser Leu Trp Asn Asp Phe Leu Leu Ser
              35              40              45
Val Leu Phe Lys Phe Arg Arg Ser Tyr Ser Gly Ile Cys Thr Phe Pro
              50              55              60
Cys Tyr Ser Ser Cys Leu Met Asn Phe Ile His Leu His Phe Ser Met
              65              70              75              80
Trp Leu Ala Trp Thr Gly Gly Arg Thr Leu Trp Pro His Gly Thr Leu
              85              90              95
Arg Thr Gln Gly Arg Ala Ser Ala Gly Lys Glu Leu Pro Gly Leu Thr
              100             105             110
Glu Leu His Leu Thr Val Leu Phe Leu Ala Ile Phe Cys Cys Leu Phe
              115             120             125
Leu Cys Val Asp Phe Val Pro Gly Lys Ile Phe His Ser Glu
              130             135             140

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<210> 2943

<211> 1309

<212> PRT

<213> Homo sapiens

<400> 2943

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Met Arg Glu Pro Leu Pro Gly Ser Ala Ser Trp Gly Thr Pro Gly Pro
 1              5              10              15
Pro Ser Ala Gly Thr Met Ser Gln Leu Gln Leu Trp Leu Gln Phe Glu
              20              25              30
Ala Leu Asn Lys Asp Ser Ser Tyr Phe Glu Asp Phe Ser Asn Ile Ser
              35              40              45
Ile Phe Ser Ser Ser Val Asp Ser Leu Ser Asp Ile Val Asp Thr Pro

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50	55	60
Asp Phe Leu Pro Ala	Asp Ser Leu Asn Gln Val	Ser Thr Ile Trp Asp
65	70	75
Asp Asn Pro Ala Pro	Ser Thr His Asp Lys Leu Phe	Gln Leu Ser Arg
85	90	95
Pro Phe Ala Gly Phe	Glu Asp Phe Leu Pro	Ser His Ser Thr Pro Leu
100	105	110
Leu Val Ser Tyr Gln	Glu Gln Ser Val Gln	Ser Gln Pro Glu Glu Glu
115	120	125
Asp Glu Ala Glu Glu	Glu Glu Ala Glu Glu	Leu Gly His Thr Glu Thr
130	135	140
Tyr Ala Asp Tyr Val	Pro Ser Lys Ser Lys	Ile Gly Lys Gln His Pro
145	150	155
Asp Arg Val Val Glu	Thr Ser Thr Leu Ser	Ser Val Pro Pro Pro Asp
165	170	175
Ile Thr Tyr Thr Leu	Ala Leu Pro Ser Asp	Ser Gly Ala Leu Ser Ala
180	185	190
Leu Gln Leu Glu Ala	Ile Thr Tyr Ala Cys	Gln Gln His Glu Val Leu
195	200	205
Leu Pro Ser Gly Gln	Arg Ala Gly Phe Leu	Ile Gly Asp Gly Ala Gly
210	215	220
Val Gly Lys Gly Arg	Thr Val Ala Gly Val	Ile Leu Glu Asn His Leu
225	230	235
Arg Gly Arg Lys Lys	Ala Leu Trp Phe Ser	Val Ser Asn Asp Leu Lys
245	250	255
Tyr Asp Ala Glu Arg	Asp Leu Arg Asp Ile	Glu Ala Thr Gly Ile Ala
260	265	270
Val His Ala Leu Ser	Lys Ile Lys Tyr Gly	Asp Thr Thr Thr Ser Glu
275	280	285
Gly Val Leu Phe Ala	Thr Tyr Ser Ala Leu	Ile Gly Glu Ser Gln Ala
290	295	300
Gly Gly Gln His Arg	Thr Arg Leu Arg Gln	Ile Leu Asp Trp Cys Gly
305	310	315
Glu Ala Phe Glu Gly	Val Ile Val Phe Asp	Glu Cys His Lys Ala Lys
325	330	335
Asn Ala Gly Ser Thr	Lys Met Gly Lys Ala	Val Leu Asp Leu Gln Asn

340	345	350
Lys Leu Pro Leu Ala Arg Val	Val Tyr Ala Ser Ala Thr Gly Ala Ser	
355	360	365
Glu Pro Arg Asn Met Ile Tyr Met	Ser Arg Leu Gly Ile Trp Gly Glu	
370	375	380
Gly Thr Pro Phe Arg Asn Phe Glu Glu Phe	Leu His Ala Ile Glu Lys	
385	390	395
Arg Gly Val Gly Ala Met Glu Ile Val Ala Met	Asp Met Lys Val Ser	
405	410	415
Gly Met Tyr Ile Ala Arg Gln Leu Ser Phe Ser	Gly Val Thr Phe Arg	
420	425	430
Ile Glu Glu Ile Pro Leu Ala Pro Ala Phe Glu Cys	Val Tyr Asn Arg	
435	440	445
Ala Ala Leu Leu Trp Ala Glu Ala Leu Asn Val Phe	Gln Gln Ala Ala	
450	455	460
Asp Trp Ile Gly Leu Glu Ser Arg Lys Ser Leu Trp	Gly Gln Phe Trp	
465	470	475
Ser Ala His Gln Arg Phe Phe Lys Tyr Leu Cys Ile	Ala Ala Lys Val	
485	490	495
Arg Arg Leu Val Glu Leu Ala Arg Glu Glu Leu Ala	Arg Asp Lys Cys	
500	505	510
Val Val Ile Gly Leu Gln Ser Thr Gly Glu Ala Arg	Thr Arg Glu Val	
515	520	525
Leu Gly Glu Asn Asp Gly His Leu Asn Cys Phe Val	Ser Ala Ala Glu	
530	535	540
Gly Val Phe Leu Ser Leu Ile Gln Lys His Phe Pro	Ser Thr Lys Arg	
545	550	555
Lys Arg Asp Arg Gly Ala Gly Ser Lys Arg Lys Arg	Arg Pro Arg Gly	
565	570	575
Arg Gly Ala Lys Ala Pro Arg Leu Ala Cys Glu Thr	Ala Gly Val Ile	
580	585	590
Arg Ile Ser Asp Asp Ser Ser Thr Glu Ser Asp Pro	Gly Leu Asp Ser	
595	600	605
Asp Phe Asn Ser Phe Pro Glu Ser Leu Val Asp Asp	Asp Val Val Ile	
610	615	620
Val Asp Ala Val Gly Leu Pro Ser Asp Asp Arg Gly	Pro Leu Cys Leu	

625	630	635	640
Leu Gln Arg Asp Pro His Gly Pro Gly Val Leu Glu Arg Val Glu Arg			
	645	650	655
Leu Lys Gln Asp Leu Leu Asp Lys Val Arg Arg Leu Gly Arg Glu Leu			
	660	665	670
Pro Val Asn Thr Leu Asp Glu Leu Ile Asp Gln Leu Gly Gly Pro Gln			
	675	680	685
Arg Val Ala Glu Met Thr Gly Arg Lys Gly Arg Val Val Ser Arg Pro			
	690	695	700
Asp Gly Thr Val Ala Phe Glu Ser Arg Ala Glu Gln Gly Leu Ser Ile			
705	710	715	720
Asp His Val Asn Leu Arg Glu Lys Gln Arg Phe Met Ser Gly Glu Lys			
	725	730	735
Leu Val Ala Ile Ile Ser Glu Ala Ser Ser Ser Gly Val Ser Leu Gln			
	740	745	750
Ala Asp Arg Arg Val Gln Asn Gln Arg Arg Arg Val His Met Thr Leu			
	755	760	765
Glu Leu Pro Trp Ser Ala Asp Arg Ala Ile Gln Gln Phe Gly Arg Thr			
	770	775	780
His Arg Ser Asn Gln Val Ser Ala Pro Glu Tyr Val Phe Leu Ile Ser			
785	790	795	800
Glu Leu Ala Gly Glu Arg Arg Phe Ala Ser Ile Val Ala Lys Arg Leu			
	805	810	815
Glu Ser Leu Gly Ala Leu Thr His Gly Asp Arg Arg Ala Thr Glu Ser			
	820	825	830
Arg Asp Leu Ser Lys Tyr Asn Phe Glu Asn Lys Tyr Gly Thr Arg Ala			
	835	840	845
Leu His Cys Val Leu Thr Thr Ile Leu Ser Gln Thr Glu Asn Lys Val			
	850	855	860
Pro Val Pro Gln Gly Tyr Pro Gly Gly Val Pro Thr Phe Phe Arg Asp			
865	870	875	880
Met Lys Gln Gly Leu Leu Ser Val Gly Ile Gly Gly Arg Glu Ser Arg			
	885	890	895
Asn Gly Cys Leu Asp Val Glu Lys Asp Cys Ser Ile Thr Lys Phe Leu			
	900	905	910
Asn Arg Ile Leu Gly Leu Glu Val His Lys Gln Asn Ala Leu Phe Gln			

915	920	925
Tyr Phe Ser Asp Thr Phe Asp His Leu Ile Glu Met Asp Lys Arg Glu		
930	935	940
Gly Lys Tyr Asp Met Gly Ile Leu Asp Leu Ala Pro Gly Ile Glu Glu		
945	950	955
Ile Tyr Glu Glu Ser Gln Gln Val Phe Leu Ala Pro Gly His Pro Gln		
965	970	975
Asp Gly Gln Val Val Phe Tyr Lys Ile Ser Val Asp Arg Gly Leu Lys		
980	985	990
Trp Glu Asp Ala Phe Ala Lys Ser Leu Ala Leu Thr Gly Pro Tyr Asp		
995	1000	1005
Gly Phe Tyr Leu Ser Tyr Lys Val Arg Gly Asn Lys Pro Ser Cys Leu		
1010	1015	1020
Leu Ala Glu Gln Asn Arg Gly Gln Phe Phe Thr Val Tyr Lys Pro Asn		
1025	1030	1035
Ile Gly Arg Gln Ser Gln Leu Glu Ala Leu Asp Ser Leu Arg Arg Lys		
1045	1050	1055
Phe His Arg Val Thr Ala Glu Glu Ala Lys Glu Pro Trp Glu Ser Gly		
1060	1065	1070
Tyr Ala Leu Ser Leu Thr His Cys Ser His Ser Ala Trp Asn Arg His		
1075	1080	1085
Cys Arg Leu Ala Gln Glu Gly Lys Asp Cys Leu Gln Gly Leu Arg Leu		
1090	1095	1100
Arg His His Tyr Met Leu Cys Gly Ala Leu Leu Arg Val Trp Gly Arg		
1105	1110	1115
Ile Ala Ala Val Met Ala Asp Val Ser Ser Ser Ser Tyr Leu Gln Ile		
1125	1130	1135
Val Arg Leu Lys Thr Lys Asp Arg Lys Lys Gln Val Gly Ile Lys Ile		
1140	1145	1150
Pro Glu Gly Cys Val Arg Arg Val Leu Gln Glu Leu Arg Leu Met Asp		
1155	1160	1165
Ala Asp Val Lys Arg Arg Gln Ala Pro Ala Leu Gly Cys Pro Ala Pro		
1170	1175	1180
Pro Ala Pro Arg Pro Leu Ala Leu Pro Cys Gly Pro Gly Glu Val Leu		
1185	1190	1195
Asp Leu Thr Tyr Ser Pro Pro Ala Glu Ala Phe Pro Pro Pro Pro His		

1205 1210 1215  
 Phe Ser Phe Pro Ala Pro Leu Ser Leu Asp Ala Gly Pro Gly Val Val  
 1220 1225 1230  
 Pro Leu Gly Thr Pro Asp Ala Gln Ala Asp Pro Ala Ala Leu Ala His  
 1235 1240 1245  
 Gln Gly Cys Asp Ile Asn Phe Lys Glu Val Leu Glu Asp Met Leu Arg  
 1250 1255 1260  
 Ser Leu His Ala Gly Pro Pro Ser Glu Gly Ala Leu Gly Glu Gly Ala  
 1265 1270 1275 1280  
 Gly Ala Gly Gly Ala Ala Gly Gly Gly Pro Glu Arg Gln Ser Val Ile  
 1285 1290 1295  
 Gln Phe Ser Pro Pro Phe Pro Gly Ala Gln Ala Pro Leu  
 1300 1305

<210> 2944

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2944

Met His Ile Ser Lys Leu Cys Pro Gly Ser Phe Ser Thr Phe Leu His  
 1 5 10 15  
 Ile Leu Phe Gln Ala Gly Val Gln Trp His Asp Leu Asn Ser Leu Gln  
 20 25 30  
 Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser Phe Leu Ser Leu Leu Ser  
 35 40 45  
 Ser Trp Asp Tyr Arg His Ala Pro Pro His Pro Ala Asn Leu Cys Ile  
 50 55 60  
 Phe Ser Arg Asp Gly Val Ser Pro Cys Trp Ser Gly Trp Ser Gln Thr  
 65 70 75 80  
 Pro Asp Leu Val Ile Arg Arg Pro Leu Pro Pro Lys Val Leu Val His  
 85 90 95  
 Ile Leu Phe Leu Ser Phe Leu Leu Leu Pro Leu Ala Leu Pro Thr Pro  
 100 105 110

Lys Leu Cys Ser Leu Lys Asp Leu Thr Trp Leu Thr Ala Gly Leu Ser  
 115 120 125  
 Arg

<210> 2945

<211> 122

<212> PRT

<213> Homo sapiens

<400> 2945

Met Trp Gly Gly Phe Ala Leu Val Ala Ile Gly Leu Gln Phe Gly Leu  
 1 5 10 15  
 Lys Met Thr Gln Phe Leu Val Leu Arg Trp Arg Gly Ile Ala Leu Lys  
 20 25 30  
 Phe Ala Cys Thr Arg Leu Ser Ala Ser Ile Tyr Met Thr Asp Ile Phe  
 35 40 45  
 Val Thr His Arg Arg Cys Pro Trp Tyr Arg Val Tyr Ala Tyr Ile Ser  
 50 55 60  
 Ile Phe Ile Leu Gly Thr His Glu Leu Leu Leu Ile Ile Ser Leu Tyr  
 65 70 75 80  
 Leu Leu Glu Ser Val Phe Glu Lys Lys Lys Lys Asn Phe Cys Phe Asp  
 85 90 95  
 Leu Trp Trp Ile His Leu Leu Lys Ile Ile Asn Leu Glu Asp Ile Arg  
 100 105 110  
 Asn Asp Ile Gln Asn Lys Tyr Ser Glu Arg  
 115 120

<210> 2946

<211> 396

<212> PRT

<213> Homo sapiens

<400> 2946



Met	Leu	Ala	Lys	Cys	Leu	Gln	Leu	Asn	Val	Lys	Lys	Gly	Ser	Phe	Val
1				5					10					15	
Ala	Lys	Ile	Ile	Lys	Val	Ile	Asn	Phe	Tyr	Leu	Val	Cys	Thr	Leu	Thr
				20				25						30	
Ile	Thr	Leu	Asn	Ile	Ile	Met	Lys	Met	Phe	Val	Pro	His	Lys	Glu	Asn
				35				40						45	
Gly	His	Met	Leu	Lys	Phe	Leu	Glu	Val	Lys	Phe	Gly	Leu	Asn	Met	Thr
				50				55						60	
Lys	Asn	Phe	Thr	Met	Asn	Trp	Leu	Leu	Cys	Gln	Glu	Ser	Leu	Gln	Ala
65					70					75					80
Pro	Ser	Gln	Asp	Phe	Phe	Leu	Arg	Leu	Thr	Gln	Ser	Ser	Leu	Leu	Pro
				85						90					95
Phe	Tyr	Ile	Leu	Val	Leu	Ile	Ile	Cys	Phe	Leu	Ser	Met	Leu	Gln	Val
				100						105					110
Thr	Phe	Arg	Arg	Ile	Asn	Gly	Lys	Ser	Leu	Lys	Glu	Thr	Val	Thr	Leu
				115						120					125
Glu	Asp	Gly	Arg	Ile	Gly	Glu	Arg	Pro	Glu	Ile	Ile	Tyr	His	Val	Ile
				130						135					140
His	Thr	Ile	Leu	Leu	Gly	Ser	Leu	Ala	Met	Val	Ile	Glu	Gly	Leu	Lys
145					150					155					160
Tyr	Ile	Trp	Ile	Pro	Tyr	Val	Cys	Met	Leu	Ala	Ala	Phe	Gly	Val	Cys
				165						170					175
Ser	Pro	Glu	Leu	Trp	Met	Thr	Leu	Phe	Lys	Trp	Leu	Arg	Leu	Arg	Thr
				180						185					190
Val	His	Pro	Ile	Leu	Leu	Ala	Leu	Ile	Leu	Ser	Met	Ala	Val	Pro	Thr
				195						200					205
Ile	Ile	Gly	Leu	Ser	Leu	Trp	Lys	Glu	Phe	Phe	Pro	Arg	Leu	Met	Thr
				210						215					220
Glu	Leu	Met	Glu	Leu	Gln	Glu	Phe	Tyr	Asp	Pro	Asp	Thr	Val	Glu	Leu
225					230					235					240
Met	Thr	Trp	Ile	Lys	Arg	Gln	Ala	Pro	Val	Ala	Ala	Val	Phe	Ala	Gly
				245						250					255
Ser	Pro	Gln	Leu	Met	Gly	Ala	Ile	Lys	Leu	Cys	Thr	Gly	Trp	Met	Val
				260						265					270
Thr	Ser	Leu	Pro	Leu	Tyr	Asn	Asp	Asp	Asp	Leu	Leu	Lys	Arg	Asn	Glu

275	280	285
Asn Ile Tyr Gln Ile Tyr Ser Lys Arg Ser Ala Glu Asp Ile Tyr Lys		
290	295	300
Ile Leu Thr Ser Tyr Lys Ala Asn Tyr Leu Ile Val Glu Asp Ala Ile		
305	310	315
Cys Asn Glu Val Gly Pro Met Arg Gly Cys Arg Val Lys Asp Leu Leu		
325	330	335
Asp Ile Ala Asn Gly His Met Val Cys Glu Glu Gly Asp Lys Leu Thr		
340	345	350
Tyr Ser Lys Tyr Gly Arg Phe Cys His Glu Val Lys Ile Asn Tyr Ser		
355	360	365
Pro Tyr Val Asn Tyr Phe Thr Arg Val Tyr Trp Asn Arg Ser Tyr Phe		
370	375	380
Val Tyr Lys Ile Asn Thr Val Ile Ser Phe Gln Ser		
385	390	395

&lt;210&gt; 2947

&lt;211&gt; 531

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2947

Met Arg Asn Leu Ala Thr Ile Phe Leu Ala Val Val Met Ala Leu Leu		
1	5	10
Ser Leu His Cys Leu Ala Ala Phe Lys Arg Leu Glu His Lys Glu Val		
20	25	30
Leu Val Gly Leu Leu Phe Leu Val Phe Pro Phe Ile Pro Ala Ser Asn		
35	40	45
Leu Phe Phe Arg Val Gly Phe Val Val Ala Glu Arg Val Leu Tyr Met		
50	55	60
Pro Ser Met Gly Tyr Cys Ile Leu Phe Val His Gly Leu Ser Lys Leu		
65	70	75
Cys Thr Trp Leu Asn Arg Cys Gly Ala Thr Thr Leu Ile Val Ser Thr		
85	90	95
Val Leu Leu Leu Leu Leu Phe Ser Trp Lys Thr Val Lys Gln Asn Glu		

100	105	110
Ile Trp Leu Ser Arg Glu Ser Leu Phe Arg Ser Gly Val Gln Thr Leu		
115	120	125
Pro His Asn Ala Lys Val His Tyr Asn Tyr Ala Asn Phe Leu Lys Asp		
130	135	140
Gln Gly Arg Asn Lys Glu Ala Ile Tyr His Tyr Arg Thr Ala Leu Lys		
145	150	155
160		
Leu Tyr Pro Arg His Ala Ser Ala Leu Asn Asn Leu Gly Thr Leu Thr		
165	170	175
Arg Asp Thr Ala Glu Ala Lys Met Tyr Tyr Gln Arg Ala Leu Gln Leu		
180	185	190
His Pro Gln His Asn Arg Ala Leu Phe Asn Leu Gly Asn Leu Leu Lys		
195	200	205
Ser Gln Glu Lys Lys Glu Glu Ala Ile Thr Leu Leu Lys Asp Ser Ile		
210	215	220
Lys Tyr Gly Pro Glu Phe Ala Asp Ala Tyr Ser Ser Leu Ala Ser Leu		
225	230	235
240		
Leu Ala Glu Gln Glu Arg Phe Lys Glu Ala Glu Glu Ile Tyr Gln Thr		
245	250	255
Gly Ile Lys Asn Cys Pro Asp Ser Ser Asp Leu His Asn Asn Tyr Gly		
260	265	270
Val Phe Leu Val Asp Thr Gly Leu Pro Glu Lys Ala Val Ala His Tyr		
275	280	285
Gln Gln Ala Ile Lys Leu Ser Pro Ser His His Val Ala Met Val Asn		
290	295	300
Leu Gly Arg Leu Tyr Arg Ser Leu Gly Glu Asn Ser Met Ala Glu Glu		
305	310	315
320		
Trp Tyr Lys Arg Ala Leu Gln Val Ala His Lys Ala Glu Ile Leu Ser		
325	330	335
Pro Leu Gly Ala Leu Tyr Tyr Asn Thr Gly Arg Tyr Glu Glu Ala Leu		
340	345	350
Gln Ile Tyr Gln Glu Ala Ala Ala Leu Gln Pro Ser Gln Arg Glu Leu		
355	360	365
Arg Leu Ala Leu Ala Gln Val Leu Ala Val Met Gly Gln Thr Lys Glu		
370	375	380
Ala Glu Lys Met Thr Asn His Ile Val Ser Glu Glu Thr Gly Cys Leu		

385                      390                      395                      400  
 Glu Cys Tyr Arg Leu Leu Ser Ala Ile Tyr Ser Lys Gln Glu Asn His  
                             405                      410                      415  
 Asp Lys Ala Leu Asp Ala Ile Asp Lys Ala Leu Gln Leu Lys Pro Lys  
                             420                      425                      430  
 Asp Pro Lys Val Ile Ser Glu Leu Phe Phe Thr Lys Gly Asn Gln Leu  
                             435                      440                      445  
 Arg Glu Gln Asn Leu Leu Asp Lys Ala Phe Glu Ser Tyr Arg Val Ala  
                             450                      455                      460  
 Val Gln Leu Asn Pro Asp Gln Ala Gln Ala Trp Met Asn Met Gly Gly  
 465                      470                      475                      480  
 Ile Gln His Ile Lys Gly Lys Tyr Val Ser Ala Arg Ala Tyr Tyr Glu  
                             485                      490                      495  
 Arg Ala Leu Gln Leu Val Pro Asp Ser Lys Leu Leu Lys Glu Asn Leu  
                             500                      505                      510  
 Ala Lys Leu Asp Arg Leu Glu Lys Arg Leu Gln Glu Val Arg Glu Lys  
                             515                      520                      525  
 Asp Gln Thr  
                             530

<210> 2948

<211> 409

<212> PRT

<213> Homo sapiens

<400> 2948

Met Arg Arg Tyr Leu Arg Val Val Val Leu Cys Val Ala Cys Gly Phe  
   1                      5                      10                      15  
 Cys Ser Leu Leu Tyr Ala Phe Ser Gln Leu Ala Val Ser Leu Glu Glu  
                             20                      25                      30  
 Gly Thr Gly Gly Gly Gly Gly Lys Pro Gln Ala Ala Val Ala Ser Trp  
                             35                      40                      45  
 Leu Ala Gly Gly Gly Arg Gly Ala Val Arg Gly Ala Gly Val Ala Gly  
                             50                      55                      60  
 Pro Ala Ala His Pro Gly Val Ser Asp Arg Tyr Ser Leu Lys Ile Gln

65	70	75	80
Pro Val Glu Lys Met His Leu Ala Val Val Ala Cys Gly Glu Arg Leu			
	85	90	95
Glu Glu Thr Met Thr Met Leu Lys Ser Ala Ile Ile Phe Ser Ile Lys			
	100	105	110
Pro Leu Gln Phe His Ile Phe Ala Glu Asp Gln Leu His His Ser Phe			
	115	120	125
Lys Gly Arg Leu Asp Asn Trp Ser Phe Leu Gln Thr Phe Asn Tyr Thr			
	130	135	140
Leu Tyr Pro Ile Thr Phe Pro Ser Glu Asn Ala Ala Glu Trp Lys Lys			
145	150	155	160
Leu Phe Lys Pro Cys Ala Ser Gln Arg Leu Phe Leu Pro Leu Ile Leu			
	165	170	175
Lys Glu Val Asp Ser Leu Leu Tyr Val Asp Thr Asp Ile Leu Phe Leu			
	180	185	190
Arg Pro Val Asp Asp Ile Trp Ser Leu Leu Lys Lys Phe Asn Ser Thr			
	195	200	205
Gln Ile Ala Ala Met Ala Pro Glu His Glu Glu Pro Arg Ile Gly Trp			
	210	215	220
Tyr Asn Arg Phe Ala Arg His Pro Tyr Tyr Gly Lys Thr Gly Val Asn			
225	230	235	240
Ser Gly Val Met Leu Met Asn Met Thr Arg Met Arg Arg Lys Tyr Phe			
	245	250	255
Lys Asn Asp Met Thr Thr Val Arg Leu Gln Trp Gly Asp Ile Leu Met			
	260	265	270
Pro Leu Leu Lys Lys Tyr Lys Leu Asn Ile Thr Trp Gly Asp Gln Asp			
	275	280	285
Leu Leu Asn Ile Val Phe Phe His Asn Pro Glu Ser Leu Phe Val Phe			
	290	295	300
Pro Cys Gln Trp Asn Tyr Arg Pro Asp His Cys Ile Tyr Gly Ser Asn			
305	310	315	320
Cys Gln Glu Ala Glu Glu Gly Gly Ile Phe Ile Leu His Gly Asn Arg			
	325	330	335
Gly Val Tyr His Asp Asp Lys Gln Pro Ala Phe Arg Ala Val Tyr Glu			
	340	345	350
Ala Leu Arg Asn Cys Ser Phe Glu Asp Asp Asn Ile Arg Ser Leu Leu			

355                      360                      365  
 Lys Pro Leu Glu Leu Glu Leu Gln Lys Thr Val His Thr Tyr Cys Gly  
 370                      375                      380  
 Lys Ile Tyr Lys Ile Phe Ile Lys Gln Leu Ala Lys Ser Val Arg Asp  
 385                      390                      395                      400  
 Arg Tyr Ala Arg Ser Pro Lys Glu Lys  
 405

<210> 2949

<211> 336

<212> PRT

<213> Homo sapiens

<400> 2949

Met Asn Asn Asn Thr Thr Cys Ile Gln Pro Ser Met Ile Ser Ser Met  
 1                      5                      10                      15  
 Ala Leu Pro Ile Ile Tyr Ile Leu Leu Cys Ile Val Gly Val Phe Gly  
 20                      25                      30  
 Asn Thr Leu Ser Gln Trp Ile Phe Leu Thr Lys Ile Gly Lys Lys Thr  
 35                      40                      45  
 Ser Thr His Ile Tyr Leu Ser His Leu Val Thr Ala Asn Leu Leu Val  
 50                      55                      60  
 Cys Ser Ala Met Pro Phe Met Ser Ile Tyr Phe Leu Lys Gly Phe Gln  
 65                      70                      75                      80  
 Trp Glu Tyr Gln Ser Ala Gln Cys Arg Val Val Asn Phe Leu Gly Thr  
 85                      90                      95  
 Leu Ser Met His Ala Ser Met Phe Val Ser Leu Leu Ile Leu Ser Trp  
 100                      105                      110  
 Ile Ala Ile Ser Arg Tyr Ala Thr Leu Met Gln Lys Asp Ser Ser Gln  
 115                      120                      125  
 Glu Thr Thr Ser Cys Tyr Glu Lys Ile Phe Tyr Gly His Leu Leu Lys  
 130                      135                      140  
 Lys Phe Arg Gln Pro Asn Phe Ala Arg Lys Leu Cys Ile Tyr Ile Trp  
 145                      150                      155                      160  
 Gly Val Val Leu Gly Ile Ile Ile Pro Val Thr Val Tyr Tyr Ser Val

	165	170	175
Ile Glu Ala Thr Glu Gly Glu Glu Ser Leu Cys Tyr Asn Arg Gln Met			
	180	185	190
Glu Leu Gly Ala Met Ile Ser Gln Ile Ala Gly Leu Ile Gly Thr Thr			
	195	200	205
Phe Ile Gly Phe Ser Phe Leu Val Val Leu Thr Ser Tyr Tyr Ser Phe			
	210	215	220
Val Ser His Leu Arg Lys Ile Arg Thr Cys Thr Ser Ile Met Glu Lys			
225	230	235	240
Asp Leu Thr Tyr Ser Ser Val Lys Arg His Leu Leu Val Ile Gln Ile			
	245	250	255
Leu Leu Ile Val Cys Phe Leu Pro Tyr Ser Ile Phe Lys Pro Ile Phe			
	260	265	270
Tyr Val Leu His Gln Arg Asp Asn Cys Gln Gln Leu Asn Tyr Leu Ile			
	275	280	285
Glu Thr Lys Asn Ile Leu Thr Cys Leu Ala Ser Ala Arg Ser Ser Thr			
	290	295	300
Asp Pro Ile Ile Phe Leu Leu Leu Asp Lys Thr Phe Lys Lys Thr Leu			
305	310	315	320
Tyr Asn Leu Phe Thr Lys Ser Asn Ser Ala His Met Gln Ser Tyr Gly			
	325	330	335

&lt;210&gt; 2950

&lt;211&gt; 373

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2950

Met Leu Lys Arg Lys Pro Ser Asn Val Ser Glu Lys Glu Lys His Gln			
1	5	10	15
Lys Pro Lys Arg Ser Ser Ser Phe Gly Asn Phe Asp Arg Phe Arg Asn			
	20	25	30
Asn Ser Leu Ser Lys Pro Asp Asp Ser Thr Glu Ala His Glu Gly Asp			
	35	40	45
Pro Thr Asn Gly Ser Gly Glu Gln Ser Lys Thr Ser Asn Asn Gly Gly			

50	55	60
Gly Leu Gly Lys Lys Met Arg Ala Ile Ser Trp Thr Met Lys Lys Lys		
65	70	75
Val Gly Lys Lys Tyr Ile Lys Ala Leu Ser Glu Glu Lys Asp Glu Glu		
85	90	95
Asp Gly Glu Asn Ala His Pro Tyr Gly Asn Ser Asp Pro Val Ile Gly		
100	105	110
Thr His Thr Glu Lys Val Ser Leu Lys Ala Ser Asp Ser Met Asp Ser		
115	120	125
Leu Tyr Ser Gly Gln Ser Ser Ser Ser Gly Ile Thr Ser Cys Ser Asp		
130	135	140
Gly Thr Ser Asn Arg Asp Ser Phe Arg Leu Asp Asp Asp Gly Pro Tyr		
145	150	155
Ser Gly Pro Phe Cys Gly Arg Ala Arg Val His Thr Asp Phe Thr Pro		
165	170	175
Ser Pro Tyr Asp Thr Asp Ser Leu Lys Ile Lys Lys Gly Asp Ile Ile		
180	185	190
Asp Ile Ile Cys Lys Thr Pro Met Gly Met Trp Thr Gly Met Leu Asn		
195	200	205
Asn Lys Val Gly Asn Phe Lys Phe Ile Tyr Val Asp Val Ile Ser Glu		
210	215	220
Glu Glu Ala Ala Pro Lys Lys Ile Lys Ala Asn Arg Arg Ser Asn Ser		
225	230	235
Lys Lys Ser Lys Thr Leu Gln Glu Phe Leu Glu Arg Ile His Leu Gln		
245	250	255
Glu Tyr Thr Ser Thr Leu Leu Leu Asn Gly Tyr Glu Thr Leu Glu Asp		
260	265	270
Leu Lys Asp Ile Lys Glu Ser His Leu Ile Glu Leu Asn Ile Glu Asn		
275	280	285
Pro Asp Asp Arg Arg Arg Leu Leu Ser Ala Ala Glu Asn Phe Leu Glu		
290	295	300
Glu Glu Ile Ile Gln Glu Gln Glu Asn Glu Pro Glu Pro Leu Ser Leu		
305	310	315
Ser Ser Asp Ile Ser Leu Asn Lys Ser Gln Leu Asp Asp Cys Pro Arg		
325	330	335
Asp Ser Gly Cys Tyr Ile Ser Ser Gly Asn Ser Asp Asn Gly Lys Glu		



340                      345                      350  
 Asp Leu Glu Ser Glu Asn Leu Ser Asp Met Val His Lys Ile Ile Ile  
 355                      360                      365  
 Thr Glu Pro Ser Asp  
 370

<210> 2951

<211> 111

<212> PRT

<213> Homo sapiens

<400> 2951

Met His His Thr Glu Gly Pro His Gly Thr Arg Pro Leu Arg Pro Gly  
 1                      5                      10                      15  
 Ile Leu Met Gln Lys Thr His Ala Thr Phe Leu Arg Ile Ala Leu Thr  
 20                      25                      30  
 Asn Thr Gln Arg Asp Val Lys Gly Trp Thr Ser Phe His Thr Pro Ala  
 35                      40                      45  
 Asp Ala Glu Leu Gly Val Ala Ser His Arg Pro Gly Ser Val Leu Gln  
 50                      55                      60  
 Ala Arg Pro Leu Leu Ala Val Arg Leu Trp Ala Gly Lys Gln Lys Ala  
 65                      70                      75                      80  
 Gly Lys Glu Leu Ser Cys Thr Cys Phe Leu Ile Val Phe Ser Pro Thr  
 85                      90                      95  
 Ile Leu His Ile Ser Gly Arg His Ile Leu Val Ser Arg Asn Ser  
 100                      105                      110

<210> 2952

<211> 154

<212> PRT

<213> Homo sapiens

<400> 2952

Met Asn Arg Cys Ala Arg Cys Arg Ile Glu Asn Cys Asp Ser Cys Phe

1	5	10	15
Ser Lys Asp Phe Cys Thr Lys Cys Lys Val Gly Phe Tyr Leu His Arg			
20	25	30	
Gly Arg Cys Phe Asp Glu Cys Pro Asp Gly Phe Ala Pro Leu Glu Glu			
35	40	45	
Thr Met Glu Cys Val Glu Gly Cys Glu Val Gly His Trp Ser Glu Trp			
50	55	60	
Gly Thr Cys Ser Arg Asn Asn Arg Thr Cys Gly Phe Lys Trp Gly Leu			
65	70	75	80
Glu Thr Arg Thr Arg Gln Ile Val Lys Lys Pro Val Lys Asp Thr Ile			
85	90	95	
Leu Cys Pro Thr Ile Ala Glu Ser Arg Arg Cys Lys Met Thr Met Arg			
100	105	110	
His Cys Pro Gly Gly Lys Arg Thr Pro Lys Ala Lys Glu Lys Arg Asn			
115	120	125	
Lys Lys Lys Lys Arg Lys Leu Ile Glu Arg Ala Gln Glu Gln His Ser			
130	135	140	
Val Phe Leu Ala Thr Asp Arg Ala Asn Gln			
145	150		

&lt;210&gt; 2953

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2953

Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro Ser Asn Gly Val Glu			
1	5	10	15
Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr Ser Lys Asn Asp Glu			
20	25	30	
Asp Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg Gly Ala Leu Leu Lys			
35	40	45	
Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val Thr Lys His Gln Leu			
50	55	60	
Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys Lys Gly His Ile Asp			

65                      70                      75                      80  
 Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly Pro Ser Met Gly Ala  
                          85                      90                      95  
 Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp Leu Lys Thr Ser Lys  
                          100                      105                      110  
 Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln Ser Ala Gln Gln Trp  
                          115                      120                      125  
 Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala  
                          130                      135

<210> 2954

<211> 213

<212> PRT

<213> Homo sapiens

<400> 2954

Met Val Thr Ser Trp Ser Ala Cys Thr Arg Ser Cys Gly Gly Gly Val  
   1                      5                      10                      15  
 Gln Thr Arg Arg Val Thr Cys Gln Lys Leu Lys Ala Ser Gly Ile Ser  
                          20                      25                      30  
  
 Thr Pro Val Ser Asn Asp Met Cys Thr Gln Val Ala Lys Arg Pro Val  
                          35                      40                      45  
 Asp Thr Gln Ala Cys Asn Gln Gln Leu Cys Val Glu Trp Ala Phe Ser  
                          50                      55                      60  
 Ser Trp Gly Gln Cys Asn Gly Pro Cys Ile Gly Pro His Leu Ala Val  
   65                      70                      75                      80  
 Gln His Arg Gln Val Phe Cys Gln Thr Arg Asp Gly Ile Thr Leu Pro  
                          85                      90                      95  
 Ser Glu Gln Cys Ser Ala Leu Pro Arg Pro Val Ser Thr Gln Asn Cys  
                          100                      105                      110  
 Trp Ser Glu Ala Cys Ser Val His Trp Arg Val Ser Leu Trp Thr Leu  
                          115                      120                      125  
 Cys Thr Ala Thr Cys Gly Asn Tyr Gly Phe Gln Ser Arg Arg Val Glu  
                          130                      135                      140

Cys Val His Ala Arg Thr Asn Lys Ala Val Pro Glu His Leu Cys Ser  
 145                      150                      155                      160  
 Trp Gly Pro Arg Pro Ala Asn Trp Gln Arg Cys Asn Ile Thr Pro Cys  
                     165                      170                      175  
 Glu Asn Met Glu Cys Arg Asp Thr Thr Arg Tyr Cys Glu Lys Val Lys  
                     180                      185                      190  
 Gln Leu Lys Leu Cys Gln Leu Ser Gln Phe Lys Ser Arg Cys Cys Gly  
                     195                      200                      205  
 Thr Cys Gly Lys Ala  
                     210

<210> 2955

<211> 123

<212> PRT

<213> Homo sapiens

<400> 2955

Met Cys Val Arg Arg Ser Leu Val Gly Leu Thr Phe Cys Thr Cys Tyr  
   1                      5                      10                      15  
 Leu Ala Ser Tyr Leu Thr Asn Lys Tyr Val Leu Ser Val Leu Lys Phe  
                     20                      25                      30  
 Thr Tyr Pro Thr Leu Phe Gln Gly Ser His Val Leu Val Trp Leu Pro  
                     35                      40                      45  
 Ala Ser Val Leu Phe Val Gly Ile Ile Tyr Ala Gly Ser Arg Ala Leu  
                     50                      55                      60  
 Ser Arg Leu Ala Ile Pro Val Phe Leu Thr Leu His Asn Val Ala Glu  
   65                      70                      75                      80  
 Val Ile Ile Cys Gly Tyr Gln Lys Cys Phe Gln Lys Glu Lys Thr Ser  
                     85                      90                      95  
 Pro Ala Lys Ile Cys Arg Leu His Leu Glu Arg Thr Arg Gln Asn Gln  
                     100                      105                      110  
 Thr Ser Arg Leu Ser Ser Cys Leu Lys Gly Asp  
                     115                      120

&lt;210&gt; 2956

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2956

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Met Ile Ser Thr Arg Tyr Arg Arg Arg Arg Asp Ala Pro Arg Gly Pro
  1             5             10             15
Gly Arg Cys Pro Pro His Pro Thr Arg Pro Arg Gly Pro Gly Arg Lys
      20             25             30
Arg Gly Ala Ala Gly Ser Pro Gly Ala Ala Pro Ser Ala Ser Arg Arg
      35             40             45
Pro Glu Phe Pro Lys Pro Leu Arg Val Leu Pro Trp Arg Glu Arg Gly
      50             55             60
Arg Gly Gly Arg Glu Trp Pro Met Ser Leu Arg Ser Pro Leu Pro Thr
      65             70             75             80
Ser Ala Cys Gly Trp Gly Glu Ser Gly Arg Arg Ala Gly Pro Gly Arg
      85             90             95
Ala Pro Cys Gly Pro Arg Thr Gly Leu Ser Ala Arg Ala Val Leu Leu
      100            105            110
Ser Ala Arg Ala Arg Leu Val Ser Ser Val His Ala Val Leu Ala Thr
      115            120            125
Gly Ser Gly Ile Val Ile Ile Arg Ser Cys Asp Asp Val Ile Thr Gly
      130            135            140
Arg His Trp Leu Ala Arg Glu Tyr Val Trp Phe Leu Ile Pro Tyr Met
      145            150            155            160
Ile Tyr Asp Ser Tyr Ala Met Tyr Leu Cys Glu Trp Cys Arg Thr Arg
      165            170            175
Asp Gln Asn Arg Ala Pro Ser Leu Thr Leu Arg Asn Phe Leu Ser Arg
      180            185            190
Asn Arg Leu Met Ile Thr His His Ala Val Ile Leu Phe Val Leu Val
      195            200            205
Pro Val Ala Gln Arg Leu Arg Gly Asp Leu Gly Asp Phe Phe Val Gly
      210            215            220
Cys Ile Phe Thr Ala Glu Leu Ser Thr Pro Phe Val Ser Leu Gly Arg

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225                      230                      235                      240  
 Val Leu Ile Gln Leu Lys Gln Gln His Thr Leu Leu Tyr Lys Val Asn  
                                  245                      250                      255  
 Gly Ile Leu Thr Leu Ala Thr Phe Leu Ser Cys Arg Ile Leu Leu Phe  
                                  260                      265                      270  
 Pro Phe Met Tyr Trp Ser Tyr Gly Arg Gln Gln Gly Leu Ser Leu Leu  
                                  275                      280                      285  
 Gln Val Pro Phe Ser Ile Pro Phe Tyr Cys Asn Val Ala Asn Ala Phe  
                                  290                      295                      300  
 Leu Val Ala Pro Gln Ile Tyr Trp Phe Cys Leu Leu Cys Arg Lys Ala  
 305                      310                      315                      320  
 Val Arg Leu Phe Asp Thr Pro Gln Ala Lys Lys Asp Gly  
                                  325                      330

<210> 2957

<211> 129

<212> PRT

<213> Homo sapiens

<400> 2957

Met Tyr Arg Gln Arg Phe Leu Tyr Ser Leu Tyr Arg His Thr His Trp  
   1                      5                      10                      15  
 Val Arg Cys Ala Lys Phe Ser Pro Asp Gly Arg Leu Ile Val Ser Cys  
                                  20                      25                      30  
 Ser Glu Asp Lys Thr Ile Lys Ile Trp Asp Thr Thr Asn Lys Gln Cys  
                                  35                      40                      45  
 Val Asn Asn Phe Ser Asp Ser Val Gly Asp Leu Ser Leu Leu Phe His  
                                  50                      55                      60  
 Phe Gln Lys Val Glu Ser Tyr Leu His Gln Glu Val Gln Thr His Arg  
   65                      70                      75                      80  
 Ser Tyr Tyr Gly Gly Leu Thr Leu Met Asn Cys Ile Val Lys Val Leu  
                                  85                      90                      95  
 Pro Lys Glu Ile Ser Lys Asp Tyr Ile Leu Ile His His His Ile Phe  
                                  100                      105                      110  
 Leu Ile Ser Thr Gln Glu His His Ile Pro Met Arg Lys Lys Leu Arg

115                      120                      125  
 Leu  
  
 <210> 2958  
 <211> 191  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 2958  
 Met Val Leu Cys His Ala Asn Lys Ala Glu Arg Val Leu Val Phe Pro  
   1                      5                      10                      15  
 Ser Gly Ser Leu Leu Thr Lys Ser Ser Glu Thr His Ile Arg Phe Leu  
                     20                      25                      30  
 Gln Cys Ser Gln Arg Gln Gly Trp Gln Leu Ala Gly Tyr Gly Gln Val  
                     35                      40                      45  
 Trp Arg Lys Glu Ser Ser Tyr Lys Pro Gly Gly Arg Asn Gly Lys Leu  
                     50                      55                      60  
 Gly Thr Gln Lys Gly Pro Arg Asn Gly Gln Cys His Thr Arg Leu Gly  
   65                      70                      75                      80  
 Leu Val Leu Trp Val Met Trp Pro Pro Leu Thr Ala His Val Arg Trp  
                     85                      90                      95  
 Ser Gln Phe Arg Ala Arg Arg Trp Gly Cys Thr Gly Glu Gly Leu Ala  
                     100                      105                      110  
 Leu Cys Gln Ala Leu Gly Val His Gly Arg Gly Ala Gly Ser Val Pro  
                     115                      120                      125  
 Gly Ala Gly Gly Ala Arg Glu Arg Gly Trp Leu Cys Ala Arg Arg Cys  
                     130                      135                      140  
 Gly Cys Thr Gly Glu Gly Leu Ala Leu Cys Gln Ala Leu Gly Val His  
   145                      150                      155                      160  
 Gly Arg Gly Ala Gly Phe Trp Ala Ala Gly Thr Val His Gly Gln Ala  
                     165                      170                      175  
 Val His Ser Glu Val Arg Gly Pro Pro Lys Ser Arg Ser Lys Leu  
                     180                      185                      190

&lt;210&gt; 2959

&lt;211&gt; 467

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2959

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Met Arg Val Ser Ser His Lys Gln Pro Ala Leu Lys Ala Thr Ser Asp
  1             5             10            15
Lys Glu Asn Ser Val Pro Asn Met Ala Thr Glu Thr Lys Asp Glu Gln
      20             25            30
Ile Ser Gly Thr Val Ser Ser Gln Lys Gln Pro Ala Leu Lys Ala Thr
      35             40            45
Ser Asp Lys Lys Asp Ser Val Ser Asn Ile Pro Thr Glu Ile Lys Asp
      50             55            60
Gly Gln Gln Ser Gly Thr Val Ser Ser Gln Lys Gln Pro Ala Trp Lys
      65             70            75            80
Ala Thr Ser Val Lys Lys Asp Ser Val Ser Asn Ile Ala Thr Glu Ile
      85             90            95
Lys Asp Gly Gln Ile Arg Gly Thr Val Ser Ser Gln Arg Gln Pro Ala
      100            105            110
Leu Lys Ala Thr Gly Asp Glu Lys Asp Ser Val Ser Asn Ile Ala Arg
      115            120            125
Glu Ile Lys Asp Gly Glu Lys Ser Gly Thr Val Ser Pro Gln Lys Gln
      130            135            140
Ser Ala Gln Lys Val Ile Phe Lys Lys Lys Val Ser Leu Leu Asn Ile
      145            150            155            160
Ala Thr Arg Ile Thr Ser Gly Trp Lys Ser Gly Thr Glu Tyr Pro Glu
      165            170            175
Asn Leu Pro Thr Leu Lys Ala Thr Ile Glu Asn Lys Asn Ser Val Leu
      180            185            190
Asn Thr Ala Thr Lys Met Lys Asp Val Gln Thr Ser Thr Pro Glu Gln
      195            200            205
Asp Leu Glu Met Ala Ser Glu Gly Glu Gln Lys Arg Leu Glu Glu Tyr
      210            215            220
Glu Asn Asn Gln Pro Gln Val Lys Asn Gln Ile His Ser Arg Asp Asp

```



225                      230                      235                      240  
 Leu Asp Asp Ile Ile Gln Ser Ser Gln Thr Val Ser Glu Asp Gly Asp  
                          245                      250                      255  
 Ser Leu Cys Cys Asn Cys Lys Asn Val Ile Leu Leu Ile Asp Gln His  
                          260                      265                      270  
 Glu Met Lys Cys Lys Asp Cys Val His Leu Leu Lys Ile Lys Lys Thr  
                          275                      280                      285  
 Phe Cys Leu Cys Lys Arg Leu Thr Glu Leu Lys Asp Asn His Cys Glu  
                          290                      295                      300  
 Gln Leu Arg Val Lys Ile Arg Lys Leu Lys Asn Lys Ala Ser Val Leu  
 305                      310                      315                      320  
 Gln Lys Arg Leu Ser Glu Lys Glu Glu Ile Lys Ser Gln Leu Lys His  
                          325                      330                      335  
 Glu Thr Leu Glu Leu Glu Lys Glu Leu Cys Ser Leu Arg Phe Ala Ile  
                          340                      345                      350  
 Gln Gln Glu Lys Lys Lys Arg Arg Asn Val Glu Glu Val His Gln Lys  
                          355                      360                      365  
 Val Arg Glu Lys Leu Arg Ile Thr Glu Glu Gln Tyr Arg Ile Glu Ala  
                          370                      375                      380  
 Asp Val Thr Lys Pro Ile Lys Pro Ala Leu Lys Ser Ala Glu Val Glu  
 385                      390                      395                      400  
 Leu Lys Thr Gly Gly Asn Asn Ser Asn Gln Val Ser Glu Thr Asp Glu  
                          405                      410                      415  
  
 Lys Glu Asp Leu Leu His Glu Asn Arg Leu Met Gln Asp Glu Ile Ala  
                          420                      425                      430  
 Arg Leu Arg Leu Glu Lys Asp Thr Ile Lys Asn Gln Asn Leu Glu Lys  
                          435                      440                      445  
 Lys Tyr Leu Lys Asp Phe Glu Ile Val Lys Arg Lys His Glu Asp Leu  
                          450                      455                      460  
 Gln Lys Ala  
 465

&lt;210&gt; 2960

&lt;211&gt; 202

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2960

```

Met His Ser Glu Pro Gly Ala Arg Leu Val Leu Thr Leu Gln Thr Leu
  1              5              10              15
Ser Arg Ala Leu Ser Asn Leu Lys Ala Cys Trp Gly Cys Asn Val Thr
      20              25              30
Phe Thr His Ala Gly Pro Phe Gln Lys Ser Ala Arg Ser Cys Asn Trp
      35              40              45
Cys Tyr Phe Ser Cys Ser Gly Thr Met Cys Ser Thr Thr Gly Val Ser
      50              55              60
Ala Leu Pro Lys Ser Lys Phe His Leu Ser Ala Lys Cys Arg Gly Ile
      65              70              75              80
Cys Phe Leu Leu Ser Ser His Arg Ile Val Gly His Leu Phe Ala Gly
      85              90              95
Leu Leu Arg Asp Phe Leu Ala Ile Tyr Leu Gln Ala Phe Phe Pro Ser
      100              105              110
Pro Lys Phe Leu Gly Trp Leu Cys Leu Leu Lys Glu Pro Val Phe Thr
      115              120              125
Lys Leu His Ser Gly Ala Ser Val Arg Cys Leu Arg Ser Tyr Cys Arg
      130              135              140
Pro Phe Arg Thr Pro Ser Gln Glu Arg Thr Leu Gln Pro Leu Ala Arg
      145              150              155              160
Asp Ser Thr Phe Phe Leu Ile Leu Phe Leu Thr Leu Leu Leu Leu Leu
      165              170              175
Leu Pro Thr Asn Ser Ile Ser Phe Phe Phe Leu Phe Leu Ser Phe Ser
      180              185              190

Tyr Ser Ser Phe Pro Pro Ser Leu Ser Cys
      195              200

```

&lt;210&gt; 2961

&lt;211&gt; 202

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2961

```

Met His Ser Glu Pro Gly Ala Arg Leu Val Leu Thr Leu Gln Thr Leu
  1             5             10             15
Ser Arg Ala Leu Ser Asn Leu Lys Ala Cys Trp Gly Cys Asn Val Ser
          20             25             30
Phe Thr His Ala Gly Pro Phe Gln Lys Ser Ala Arg Ser Cys Asn Trp
      35             40             45
Cys Tyr Phe Ser Cys Ser Gly Thr Met Cys Ser Thr Thr Gly Val Ser
      50             55             60
Ala Leu Pro Lys Ser Lys Phe His Leu Ser Ala Lys Cys Arg Gly Ile
      65             70             75             80
Cys Phe Leu Leu Ser Ser His Arg Ile Val Gly His Leu Phe Ala Gly
          85             90             95
Leu Leu Arg Asp Phe Leu Ala Ile Tyr Leu Gln Ala Phe Phe Pro Ser
          100             105             110
Pro Lys Phe Leu Gly Trp Leu Cys Leu Leu Lys Glu Pro Val Phe Thr
          115             120             125
Lys Leu His Ser Gly Ala Ser Val Arg Cys Leu Arg Ser Tyr Cys Arg
          130             135             140
Pro Phe Arg Thr Pro Ser Gln Glu Arg Thr Leu Gln Pro Leu Ala Arg
          145             150             155             160
Asp Ser Thr Phe Phe Leu Ile Leu Phe Leu Thr Leu Leu Leu Leu Leu
          165             170             175
Leu Pro Thr Asn Ser Ile Ser Phe Phe Phe Leu Phe Leu Ser Phe Ser
          180             185             190
Tyr Ser Ser Phe Pro Pro Ser Leu Ser Cys
          195             200

```

<210> 2962

<211> 122

<212> PRT

<213> Homo sapiens

&lt;400&gt; 2962

Met Arg Met Lys Gly Tyr Lys Ala Leu Pro Pro Phe Gln Leu Pro Thr  
 1 5 10 15  
 Cys Ser Ser Ser Thr Pro Leu Arg Phe Gly Pro Pro Arg Thr Asn Glu  
 20 25 30  
 Val His Thr Leu Trp Met Arg Lys Arg Gly Ser Trp Leu Ala Ser Leu  
 35 40 45  
 Leu Pro Val Ile Gln Phe Glu Asp Ile Leu Thr Leu Gly Lys Asp Glu  
 50 55 60  
 Val Leu Lys Pro Gln Leu Leu Ser Thr Arg Ser His Ser Ser Trp Gly  
 65 70 75 80  
 Arg Gln Arg Gly Lys Ser Leu Ser Lys Val Tyr Pro Ala Ser Leu Arg  
 85 90 95  
 Phe Ile Asp Leu His Lys Arg Gln Cys Ser Gly Lys Gly Arg Gly Pro  
 100 105 110  
 Gln Lys Gly Ala Trp Gln Asp Arg Gly Cys  
 115 120

&lt;210&gt; 2963

&lt;211&gt; 939

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2963

Met Ala Pro Gln Met Tyr Glu Phe His Leu Pro Leu Ser Pro Glu Glu  
 1 5 10 15  
 Leu Leu Lys Ser Gly Gly Val Asn Gln Tyr Val Val Gln Glu Val Leu  
 20 25 30  
 Ser Ile Lys His Leu Pro Pro Gln Leu Arg Ala Phe Gln Ala Ala Phe  
 35 40 45  
 Arg Ala Gln Gly Pro Leu Ala Met Leu Gln His Phe Asp Thr Ile Tyr  
 50 55 60  
 Ser Ile Leu His Leu Val Thr Gly Cys Cys Tyr Arg Leu Leu Glu Asn  
 65 70 75 80  
 Pro Thr Ile Asn His Gln Lys Asn Arg Pro Thr Arg Glu Ala Ile Thr

	85	90	95
His Leu Leu Gly Val Ala Leu Thr Arg Tyr Asn His Met Leu Ser Ala			
	100	105	110
Thr Val Lys Ile Ile Gln Met Leu Gln His Phe Glu His Leu Ala Pro			
	115	120	125
Val Leu Val Ala Ala Val Ser Leu Trp Ala Thr Asp Tyr Gly Met Lys			
	130	135	140
Ser Ile Val Gly Glu Ile Val Arg Glu Ile Gly Gln Lys Cys Pro Gln			
145	150	155	160
Glu Leu Ser Arg Asp Pro Ser Gly Thr Lys Gly Phe Ala Ala Phe Leu			
	165	170	175
Thr Glu Leu Ala Glu Arg Val Pro Ala Ile Leu Met Ser Ser Met Cys			
	180	185	190
Ile Leu Leu Asp His Leu Asp Gly Glu Asn Tyr Met Met Arg Asn Ala			
	195	200	205
Val Leu Ala Ala Met Ala Glu Met Val Leu Gln Val Leu Ser Gly Asp			
	210	215	220
Gln Leu Glu Ala Ala Ala Arg Asp Thr Arg Asp Gln Phe Leu Asp Thr			
225	230	235	240
Leu Gln Ala His Gly His Asp Val Asn Ser Phe Val Arg Ser Arg Val			
	245	250	255
Leu Gln Leu Phe Thr Arg Ile Val Gln Gln Lys Ala Leu Pro Leu Thr			
	260	265	270
Arg Phe Gln Ala Val Val Ala Leu Ala Val Gly Arg Leu Ala Asp Lys			
	275	280	285
Ser Val Leu Val Cys Lys Asn Ala Ile Gln Leu Leu Ala Ser Phe Leu			
	290	295	300
Ala Asn Asn Pro Phe Ser Cys Lys Leu Ser Asp Ala Asp Leu Ala Gly			
305	310	315	320
Pro Leu Gln Lys Glu Thr Gln Lys Leu Gln Glu Met Arg Ala Gln Arg			
	325	330	335
Arg Thr Ala Ala Ala Ser Ala Val Leu Asp Pro Glu Glu Glu Trp Glu			
	340	345	350
Ala Met Leu Pro Glu Leu Lys Ser Thr Leu Gln Gln Leu Leu Gln Leu			
	355	360	365
Pro Gln Gly Glu Glu Glu Ile Pro Glu Gln Ile Ala Asn Thr Glu Thr			

370	375	380	
Thr Glu Asp Val Lys Gly Arg Ile Tyr Gln Leu Leu Ala Lys Ala Ser			
385	390	395	400
Tyr Lys Lys Ala Ile Ile Leu Thr Arg Glu Ala Thr Gly His Phe Gln			
405	410	415	
Glu Ser Glu Pro Phe Ser His Ile Asp Pro Glu Glu Ser Glu Glu Thr			
420	425	430	
Arg Leu Leu Asn Ile Leu Gly Leu Ile Phe Lys Gly Pro Ala Ala Ser			
435	440	445	
Thr Gln Glu Lys Asn Pro Arg Glu Ser Thr Gly Asn Met Val Thr Gly			
450	455	460	
Gln Thr Val Cys Lys Asn Lys Pro Asn Met Ser Asp Pro Glu Glu Ser			
465	470	475	480
Arg Gly Asn Asp Glu Leu Val Lys Gln Glu Met Leu Val Gln Tyr Leu			
485	490	495	
Gln Asp Ala Tyr Ser Phe Ser Arg Lys Ile Thr Glu Ala Ile Gly Ile			
500	505	510	
Ile Ser Lys Met Met Tyr Glu Asn Thr Thr Thr Val Val Gln Glu Val			
515	520	525	
Ile Glu Phe Phe Val Met Val Phe Gln Phe Gly Val Pro Gln Ala Leu			
530	535	540	
Phe Gly Val Arg Arg Met Leu Pro Leu Ile Trp Ser Lys Glu Pro Gly			
545	550	555	560
Val Arg Glu Ala Val Leu Asn Ala Tyr Arg Gln Leu Tyr Leu Asn Pro			
565	570	575	
Lys Gly Asp Ser Ala Arg Ala Lys Ala Gln Ala Leu Ile Gln Asn Leu			
580	585	590	
Ser Leu Leu Leu Val Asp Ala Ser Val Gly Thr Ile Gln Cys Leu Glu			
595	600	605	
Glu Ile Leu Cys Glu Phe Val Gln Lys Asp Glu Leu Lys Pro Ala Val			
610	615	620	
Thr Gln Leu Leu Trp Glu Arg Ala Thr Glu Lys Val Ala Cys Cys Pro			
625	630	635	640
Leu Glu Arg Cys Ser Ser Val Met Leu Leu Gly Met Met Ala Arg Gly			
645	650	655	
Lys Pro Glu Ile Val Gly Ser Asn Leu Asp Thr Leu Val Ser Ile Gly			

660	665	670
Leu Asp Glu Lys Phe Pro Gln Asp Tyr Arg Leu Ala Gln Gln Val Cys		
675	680	685
His Ala Ile Ala Asn Ile Ser Asp Arg Arg Lys Pro Ser Leu Gly Lys		
690	695	700
Arg His Pro Pro Phe Arg Leu Pro Gln Glu His Arg Leu Phe Glu Arg		
705	710	715
Leu Arg Glu Thr Val Thr Lys Gly Phe Val His Pro Asp Pro Leu Trp		
725	730	735
Ile Pro Phe Lys Glu Val Ala Val Thr Leu Ile Tyr Gln Leu Ala Glu		
740	745	750
Gly Pro Glu Val Ile Cys Ala Gln Ile Leu Gln Gly Cys Ala Lys Gln		
755	760	765
Ala Leu Glu Lys Leu Glu Glu Lys Arg Thr Ser Gln Glu Asp Pro Lys		
770	775	780
Glu Ser Pro Ala Met Leu Pro Thr Phe Leu Leu Met Asn Leu Leu Ser		
785	790	795
Leu Ala Gly Asp Val Ala Leu Gln Gln Leu Val His Leu Glu Gln Ala		
805	810	815
Val Ser Gly Glu Leu Cys Arg Arg Arg Val Leu Arg Glu Glu Gln Glu		
820	825	830
His Lys Thr Lys Asp Pro Lys Glu Lys Asn Thr Ser Ser Glu Thr Thr		
835	840	845
Met Glu Glu Glu Leu Gly Leu Val Gly Ala Thr Ala Asp Asp Thr Glu		
850	855	860
Ala Glu Leu Ile Arg Gly Ile Cys Gly Met Glu Leu Leu Asp Gly Lys		
865	870	875
Gln Thr Leu Ala Ala Phe Val Pro Leu Leu Leu Lys Val Cys Asn Asn		
885	890	895
Pro Gly Leu Tyr Ser Asn Pro Asp Leu Ser Ala Ala Ala Ser Leu Ala		
900	905	910
Leu Gly Lys Phe Cys Met Ile Ser Ala Thr Phe Cys Asp Ser Gln His		
915	920	925
Phe Ala Ile Pro Arg Arg Val Asp Asn Leu Arg		
930	935	

&lt;210&gt; 2964

&lt;211&gt; 102

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2964

```

Met Gly Cys Asp Asn Thr Cys Glu Met Leu Leu Thr Lys Glu Ala Gln
  1             5             10             15
Leu Glu Thr Gln His Pro Glu Val Phe Phe Val Val Val Val Val Leu
      20             25             30
Val Phe Phe Trp Arg Gly Gly Gly Ser Cys Ser Asp Ala Gln Ala Gly
      35             40             45
Met Gln Trp His Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe
      50             55             60
Lys Arg Ser Ser Gly Leu Ser Phe Pro Asn Ser Trp Asn Tyr Arg Arg
      65             70             75             80
Ala Pro Ala Ser Ser Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val
      85             90             95
Ser Pro Cys Trp Pro Gly
      100

```

&lt;210&gt; 2965

&lt;211&gt; 806

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2965

```

Met Ser Ala Ser Pro Asp Asn Leu Ser Thr Gly Gly Arg Leu Gln Asn
  1             5             10             15
Met Thr Val Asp Glu Cys Leu Gln Ser Arg Asn Thr Val Leu Gln Gly
      20             25             30
Gln Pro Phe Gly Gly Val Pro Thr Val Leu Cys Leu Asn Ile Ala Leu
      35             40             45
Trp Val Leu Val Leu Val Val Tyr Ser Phe Leu Arg Lys Ala Ala Trp

```



50	55	60
Asp Tyr Gly Arg Leu Ala Leu Leu Ile His Asn Asp Ser Leu Thr Ser		
65	70	75
Leu Ile Tyr Gly Glu Gln Ser Glu Lys Thr Ser Pro Ser Glu Thr Ser		
85	90	95
Leu Glu Met Glu Arg Arg Asp Lys Gly Phe Cys Ser Trp Phe Phe Asn		
100	105	110
Ser Ile Thr Met Lys Asp Glu Asp Leu Ile Asn Lys Cys Gly Asp Asp		
115	120	125
Ala Arg Ile Tyr Ile Val Phe Gln Tyr His Leu Ile Ile Phe Val Leu		
130	135	140
Ile Ile Cys Ile Pro Ser Leu Gly Ile Ile Leu Pro Ile Asn Tyr Thr		
145	150	155
Gly Ser Val Leu Asp Trp Ser Ser His Phe Ala Arg Thr Thr Ile Val		
165	170	175
Asn Val Ser Thr Glu Ser Lys Leu Leu Trp Leu His Ser Leu Leu Ser		
180	185	190
Phe Phe Tyr Phe Ile Thr Asn Phe Met Phe Met Ala His His Cys Leu		
195	200	205
Gly Phe Ala Pro Arg Asn Ser Gln Lys Val Thr Arg Thr Leu Met Ile		
210	215	220
Thr Tyr Val Pro Lys Asp Ile Glu Asp Pro Glu Leu Ile Ile Lys His		
225	230	235
Phe His Glu Ala Tyr Pro Gly Ser Val Val Thr Arg Val His Phe Cys		
245	250	255
Tyr Asp Val Arg Asn Leu Ile Asp Leu Asp Asp Gln Arg Arg His Ala		
260	265	270
Met Arg Gly Arg Leu Phe Tyr Thr Ala Lys Ala Lys Lys Thr Gly Lys		
275	280	285
Val Met Ile Arg Ile His Pro Cys Ala Arg Leu Cys Phe Cys Lys Cys		
290	295	300
Trp Thr Cys Phe Lys Glu Val Asp Ala Glu Gln Tyr Tyr Ser Glu Leu		
305	310	315
Glu Glu Gln Leu Thr Asp Glu Phe Asn Ala Glu Leu Asn Arg Val Pro		
325	330	335
Leu Lys Arg Leu Asp Leu Ile Phe Val Thr Phe Gln Asp Ser Arg Met		

340	345	350
Ala Lys Arg Val Arg Lys Asp Tyr Lys Tyr Val Gln Cys Gly Val Gln		
355	360	365
Pro Gln Gln Ser Ser Val Thr Thr Ile Val Lys Ser Tyr Tyr Trp Arg		
370	375	380
Val Thr Met Ala Pro His Pro Lys Asp Ile Ile Trp Lys His Leu Ser		
385	390	395
Val Arg Arg Phe Phe Trp Trp Ala Arg Phe Ile Ala Ile Asn Thr Phe		
405	410	415
Leu Phe Phe Leu Phe Phe Phe Leu Thr Thr Pro Ala Ile Ile Met Asn		
420	425	430
Thr Ile Asp Met Tyr Asn Val Thr Arg Pro Ile Glu Lys Leu Gln Asn		
435	440	445
Pro Ile Val Thr Gln Phe Phe Pro Ser Val Met Leu Trp Gly Phe Thr		
450	455	460
Val Ile Leu Pro Leu Ile Val Tyr Phe Ser Ala Phe Leu Glu Ala His		
465	470	475
Trp Thr Arg Ser Ser Gln Asn Leu Val Met Val His Lys Cys Tyr Ile		
485	490	495
Phe Leu Val Phe Met Val Val Ile Leu Pro Ser Met Gly Leu Thr Ser		
500	505	510
Leu Asp Val Phe Leu Arg Trp Leu Phe Asp Ile Tyr Tyr Leu Glu Gln		
515	520	525
Ala Ser Ile Arg Phe Gln Cys Val Phe Leu Pro Asp Asn Gly Ala Phe		
530	535	540
Phe Val Asn Tyr Val Ile Thr Ala Ala Leu Leu Gly Thr Gly Met Glu		
545	550	555
Leu Leu Arg Leu Gly Ser Leu Phe Cys Tyr Ser Thr Arg Leu Phe Phe		
565	570	575
Ser Arg Ser Glu Pro Glu Arg Val Asn Ile Arg Lys Asn Gln Ala Ile		
580	585	590
Asp Phe Gln Phe Gly Arg Glu Tyr Ala Trp Met Met Asn Val Phe Ser		
595	600	605
Val Val Met Ala Tyr Ser Ile Thr Cys Pro Ile Ile Val Pro Phe Gly		
610	615	620
Leu Leu Tyr Leu Cys Met Lys His Leu Thr Asp Arg Tyr Asn Met Tyr		

625                      630                      635                      640  
 Tyr Ser Phe Ala Pro Thr Lys Leu Asn Glu Gln Ile His Met Ala Ala  
                             645                      650                      655  
 Val Ser Gln Ala Ile Phe Ala Pro Leu Leu Gly Leu Phe Trp Met Leu  
                             660                      665                      670  
 Phe Phe Ser Ile Leu Arg Leu Gly Ser Leu His Ala Ile Thr Ile Phe  
                             675                      680                      685  
 Ser Leu Ser Thr Leu Leu Ile Ala Met Val Ile Ala Phe Val Gly Ile  
                             690                      695                      700  
 Phe Leu Gly Lys Leu Arg Met Val Ala Asp Tyr Glu Pro Glu Glu Glu  
 705                      710                      715                      720  
 Glu Ile Gln Thr Val Phe Asp Met Glu Pro Ser Ser Thr Ser Ser Thr  
                             725                      730                      735  
 Pro Thr Ser Leu Leu Tyr Val Ala Thr Val Leu Gln Glu Pro Glu Leu  
                             740                      745                      750  
 Asn Leu Thr Pro Ala Ser Ser Pro Ala Arg His Thr Tyr Gly Thr Met  
                             755                      760                      765  
 Asn Asn Gln Pro Glu Glu Gly Glu Glu Glu Ser Gly Leu Arg Gly Phe  
                             770                      775                      780  
 Ala Arg Glu Leu Asp Ser Ala Gln Phe Gln Glu Gly Leu Glu Leu Glu  
 785                      790                      795                      800  
 Gly Gln Asn Gln Tyr His  
                             805

<210> 2966

<211> 150

<212> PRT

<213> Homo sapiens

<400> 2966

Met Trp Pro Cys Gly Thr Arg Arg Gly Thr His Ser Ala Leu Leu Ser  
     1                      5                      10                      15  
 Ala Glu Ile Cys Glu Ala Arg Met Ser Arg Ala Arg Glu Val Glu Gly  
                             20                      25                      30  
 Pro Glu Pro Ser Gly Val Leu Val Ala Pro Glu Gln Glu Glu Glu Val

35                      40                      45  
 Glu Gly Glu Ala Arg Arg Glu Leu Gln Asp Asp Pro Ser Gly Pro Pro  
 50                      55                      60  
 Ser Ser Ser Gly Leu Cys Ser Glu Ala Ser Gly Pro Tyr Lys Ser Glu  
 65                      70                      75                      80  
 Gln Glu Gly Ala Gly Ile Trp Gly Trp Ser Gly Met Lys Trp Ala Pro  
 85                      90                      95  
 Gly Gly Gln Gln Ser Ser Gln Ala Gln Asp Arg Ala Ala Pro Ser Asn  
 100                      105                      110  
 Pro Asp Glu Ser Trp Gln Lys Ala Glu Val Gly Gly Asp Ser Glu Glu  
 115                      120                      125  
 Gly Met Gly Leu Gly Val Val Gly Glu Gly Val Ser Pro Ile Ser Gly  
 130                      135                      140  
 Leu Asp Arg Cys Thr Trp  
 145                      150

<210> 2967

<211> 104

<212> PRT

<213> Homo sapiens

<400> 2967

Met Gly Ala Ala Pro Ser Leu Leu Ser Ala Glu Pro Gly Thr Tyr Phe  
 1                      5                      10                      15  
 Leu Asp Arg Thr Arg Val Leu Leu Pro Arg Ala Gly Arg Gln Leu Arg  
 20                      25                      30  
 Val Cys Arg Arg Arg Arg Arg His Ser Ala Ala Ala Arg Arg Val Leu  
 35                      40                      45  
 Ser Gly Ala Ala Glu Ala Arg Thr Val Ala Ala Ala Ala Ala Ala Ala  
 50                      55                      60  
 Pro Arg Ser Pro Pro Gly Ala Ala Ser Pro Gly Asp Thr Phe Pro Ala  
 65                      70                      75                      80  
 Ser Met Gly Arg Arg Pro Ala Ala Arg Pro Ser Thr Pro Ala Ala Glu  
 85                      90                      95  
 Pro Glu Cys Arg Pro Glu Ala Cys

100

&lt;210&gt; 2968

&lt;211&gt; 107

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2968

```

Met Gly His Ser Asn Leu Cys Leu Leu Arg Asp Cys Lys His Gly Leu
  1             5             10             15
Gln Trp Ile Arg Glu Ser Ser Ser Val Ile Val Leu Met Ala Lys Asn
      20             25             30
Lys Ala Gln Gly Leu Pro Glu Leu Asn Glu Pro Cys Ser Gly Gln His
      35             40             45
Gly Ala Ser Ala Pro Gln Leu Gly Ser Met Ile Leu Val Phe Asn Tyr
      50             55             60
Thr Leu Leu Ala Val Val Gly Gly Lys His Ser Arg Ala Ser Val Thr
      65             70             75             80
Thr Ile Arg Arg Asn Thr Leu Gly Met Ser Gly Lys Leu Gln Ile Pro
      85             90             95
His Pro Ser Thr Val Pro Ser Ala Ser Ser Asp
      100             105

```

&lt;210&gt; 2969

&lt;211&gt; 320

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2969

```

Met Ala Glu Met Ile Ala Thr Glu Arg Glu Tyr Ile Arg Cys Leu Gly
  1             5             10             15
Tyr Val Ile Asp Asn Tyr Phe Pro Glu Met Glu Arg Met Asp Leu Pro
      20             25             30
Gln Gly Leu Arg Gly Lys His His Val Ile Phe Gly Asn Leu Glu Lys

```

35	40	45
Leu His Asp Phe His Gln Gln His Phe Leu Arg Glu Leu Glu Arg Cys		
50	55	60
Gln His Cys Pro Leu Ala Val Gly Arg Ser Phe Leu Arg His Glu Glu		
65	70	75
Gln Phe Gly Met Tyr Val Ile Tyr Ser Lys Asn Lys Pro Gln Ser Asp		
85	90	95
Ala Leu Leu Ser Ser His Gly Asn Ala Phe Phe Lys Asp Lys Gln Arg		
100	105	110
Glu Leu Gly Asp Lys Met Asp Leu Ala Ser Tyr Leu Leu Arg Pro Val		
115	120	125
Gln Arg Val Ala Lys Tyr Ala Leu Leu Leu Gln Asp Leu Leu Lys Glu		
130	135	140
Ala Ser Cys Gly Leu Ala Gln Gly Gln Glu Leu Gly Glu Leu Arg Ala		
145	150	155
Ala Glu Val Val Val Cys Phe Gln Leu Arg His Gly Asn Asp Leu Leu		
165	170	175
Ala Met Asp Ala Ile Arg Gly Cys Asp Val Asn Leu Lys Glu Gln Gly		
180	185	190
Gln Leu Arg Cys Arg Asp Glu Phe Ile Val Cys Cys Gly Arg Lys Lys		
195	200	205
Tyr Leu Arg His Val Phe Leu Phe Glu Asp Leu Ile Leu Phe Ser Lys		
210	215	220
Thr Gln Lys Val Glu Gly Ser His Asp Val Tyr Leu Tyr Lys Gln Ser		
225	230	235
Phe Lys Thr Ala Glu Ile Gly Met Thr Glu Asn Val Gly Asp Ser Gly		
245	250	255
Leu Arg Phe Glu Ile Trp Phe Arg Arg Arg Arg Lys Ser Gln Asp Thr		
260	265	270
Tyr Ile Leu Gln Ala Ser Ser Ala Glu Val Lys Ser Ala Trp Thr Asp		
275	280	285
Val Ile Gly Arg Ile Leu Trp Arg Gln Ala Leu Lys Ser Arg Gly Arg		
290	295	300
Arg Gly Thr Pro Pro Arg Gln Arg Asp Leu Gly Ser His Arg His Glu		
305	310	315
		320

&lt;210&gt; 2970

&lt;211&gt; 201

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2970

```

Met Ser Thr Leu Ser Gly Arg Pro Phe Ser Ser Leu Leu Leu Glu Gln
  1             5             10             15
Gly Asp His Arg Gly Ala Thr Trp Leu Gly Arg Gly Gly Gly Ala Gly
      20             25             30
Pro Gly Gln Ser Gly Pro Gly His Gly Gln Gly Thr Ala Thr Pro Gly
      35             40             45
Pro Gly Gln Val Arg Ala Ala Gln Ala Arg Ala Arg Arg Gly Gly Gly
      50             55             60
Ala Arg Glu Arg Pro Ala Glu Gly Ala Arg Glu Pro Gly Ala Ala Arg
      65             70             75             80
Arg Gly Ala Arg Ala Gly Pro Gly Ala His Leu Arg Ala Ala Arg Thr
      85             90             95
Leu Arg Ala Arg Ala Gln Thr Pro Gln Leu Arg Arg Glu Ala Ala Cys
      100            105            110
Ala Gly Ser Phe Phe Pro Lys Cys Arg Gln Ser Pro Arg Ser His Gly
      115            120            125
Gln Pro Phe Arg Gln Leu Gln Ser His Trp Gln Ala Pro Arg Gln Gly
      130            135            140
Trp Pro Ala Gln Glu Gly Gly Gly Arg Arg Pro Ser Arg Arg Glu Glu
      145            150            155            160
Ala Ala Ala Leu Ala Gly Gly Gly Lys Arg Thr Ala Pro Gly Leu Arg
      165            170            175
Gly Arg Gly Gly Arg Ala Ala Ala Gly Gln Gly Gly Asp Arg His Pro
      180            185            190
Asp Arg Trp Arg Arg Gln Arg Ser Lys
      195            200

```

&lt;210&gt; 2971

&lt;211&gt; 164

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2971

Met Gln Ala Pro Arg Ala Ala Pro Ala Ala Pro Leu Ser Tyr Asp Arg  
 1 5 10 15  
 Arg Pro Arg Asp Ser Gly Arg Met Trp Val Leu Gly Ile Ala Ala Thr  
 20 25 30  
 Phe Cys Gly Leu Phe Leu Leu Pro Gly Phe Ala Leu Gln Ile Gln Cys  
 35 40 45  
 Tyr Gln Cys Glu Glu Phe Gln Leu Asn Asn Asp Cys Ser Ser Pro Glu  
 50 55 60  
 Phe Ile Val Asn Cys Thr Val Asn Val Gln Asp Met Cys Gln Lys Glu  
 65 70 75 80  
 Val Met Glu Gln Ser Ala Gly Ile Met Tyr Arg Lys Ser Cys Ala Ser  
 85 90 95  
 Ser Ala Ala Cys Leu Ile Ala Ser Ala Gly Tyr Gln Ser Phe Cys Ser  
 100 105 110  
 Pro Gly Lys Leu Asn Ser Val Cys Ile Ser Cys Cys Asn Thr Pro Leu  
 115 120 125  
 Cys Ser Gly Pro Arg Pro Lys Lys Arg Gly Ser Ser Ala Ser Ala Leu  
 130 135 140  
 Arg Pro Gly Leu Arg Thr Thr Ile Leu Phe Leu Arg Leu Ala Leu Phe  
 145 150 155 160  
 Ser Ala His Cys

&lt;210&gt; 2972

&lt;211&gt; 321

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2972

Met Ala Ala Asn Ile Val Ala Lys Arg Lys Ser Leu Ser Ala Thr Val



1	5	10	15
Val Val Tyr Val Asn Gly Gly Trp Ser Ser Trp Thr Glu Trp Ser Ala			
20	25	30	
Cys Asn Val Arg Cys Gly Arg Gly Trp Gln Lys Arg Ser Arg Thr Cys			
35	40	45	
Thr Asn Pro Ala Pro Leu Asn Gly Gly Ala Phe Cys Glu Gly Met Ser			
50	55	60	
Val Gln Lys Ile Thr Cys Thr Ser Leu Cys Pro Val Asp Gly Ser Trp			
65	70	75	80
Glu Val Trp Ser Glu Trp Ser Val Cys Ser Pro Glu Cys Glu His Leu			
85	90	95	
Arg Ile Arg Glu Cys Thr Ala Pro Pro Pro Arg Asn Gly Gly Lys Phe			
100	105	110	
Cys Glu Gly Leu Ser Gln Glu Ser Glu Asn Cys Thr Asp Gly Leu Cys			
115	120	125	
Ile Leu Gly Ile Glu Asn Ala Ser Asp Ile Ala Leu Tyr Ser Gly Leu			
130	135	140	
Gly Ala Ala Val Val Ala Val Ala Val Leu Val Ile Gly Val Thr Leu			
145	150	155	160
Tyr Arg Arg Ser Gln Ser Asp Tyr Gly Val Asp Val Ile Asp Ser Ser			
165	170	175	
Ala Leu Thr Gly Gly Phe Gln Thr Phe Asn Phe Lys Thr Val Arg Gln			
180	185	190	
Gly Asn Ser Leu Leu Leu Asn Ser Ala Met Gln Pro Asp Leu Thr Val			
195	200	205	
Ser Arg Thr Tyr Ser Gly Pro Ile Cys Leu Gln Asp Pro Leu Asp Lys			
210	215	220	
Glu Leu Met Thr Glu Ser Ser Leu Phe Asn Pro Leu Ser Asp Ile Lys			
225	230	235	240
Val Lys Val Gln Ser Ser Phe Met Val Ser Leu Gly Val Ser Glu Arg			
245	250	255	
Ala Glu Tyr His Gly Lys Asn His Ser Arg Thr Phe Pro His Gly Asn			
260	265	270	
Asn His Ser Phe Ser Thr Met His Pro Arg Asn Lys Met Pro Tyr Ile			
275	280	285	
Gln Asn Leu Ser Ser Leu Pro Thr Arg Thr Glu Leu Arg Thr Thr Gly			

290                      295                      300  
 Val Phe Gly His Leu Gly Gly Arg Leu Val Met Pro Asn Thr Gly Gly  
 305                      310                      315                      320  
 Trp

<210> 2973

<211> 341

<212> PRT

<213> Homo sapiens

<400> 2973

Met Pro Gln Pro Arg Gly Gly Gln Pro Ala Trp Gln Leu Thr Pro Ser  
 1                      5                      10                      15  
 Pro Pro Pro Ser Ser Arg Ile Met Ser Thr His Val Ala Gly Leu Gly  
 20                      25                      30  
 Leu Asp Lys Met Lys Leu Gly Asn Pro Gln Ser Phe Leu Asp Gln Glu  
 35                      40                      45  
 Glu Ala Asp Asp Gln Gln Leu Leu Glu Pro Glu Ala Trp Lys Thr Tyr  
 50                      55                      60  
 Thr Glu Arg Arg Asn Ala Leu Arg Glu Phe Leu Thr Ser Asp Leu Ser  
 65                      70                      75                      80  
 Pro His Leu Leu Lys Arg His His Ala Arg Met Gln Leu Leu Arg Lys  
 85                      90                      95  
 Cys Ser Tyr Tyr Ile Glu Val Leu Pro Lys His Leu Ala Leu Gly Asp  
 100                      105                      110  
 Gln Asn Pro Leu Val Leu Pro Ser Ala Leu Phe Gln Leu Ile Asp Pro  
 115                      120                      125  
 Trp Lys Phe Gln Arg Met Lys Lys Val Gly Thr Ala Gln Thr Lys Ile  
 130                      135                      140  
 Gln Leu Leu Leu Leu Gly Asp Leu Leu Glu Gln Leu Asp His Gly Arg  
 145                      150                      155                      160  
 Ala Glu Leu Asp Ala Leu Leu Arg Ser Pro Asp Pro Arg Pro Phe Leu  
 165                      170                      175  
 Ala Asp Trp Ala Leu Val Glu Arg Arg Leu Ala Asp Val Ser Ala Val

180	185	190
Met Asp Ser Phe Leu Thr Met Met Val Pro Gly Arg Leu His Val Lys		
195	200	205
His Arg Leu Val Ser Asp Val Ser Ala Thr Lys Ile Pro His Ile Trp		
210	215	220
Leu Met Leu Ser Thr Lys Met Pro Val Val Phe Asp Arg Lys Ala Ser		
225	230	235
Ala Ala His Gln Asp Trp Ala Arg Leu Arg Trp Phe Val Thr Ile Gln		
245	250	255
Pro Ala Thr Ser Glu Gln Tyr Glu Leu Arg Phe Arg Leu Leu Asp Pro		
260	265	270
Arg Thr Gln Gln Glu Cys Ala Gln Cys Gly Val Ile Pro Val Ala Ala		
275	280	285
Cys Thr Phe Asp Val Arg Asn Leu Leu Pro Asn Arg Ser Tyr Lys Phe		
290	295	300
Thr Ile Lys Arg Ala Glu Thr Ser Thr Leu Val Tyr Glu Pro Trp Arg		
305	310	315
Asp Ser Leu Thr Leu His Thr Lys Pro Glu Pro Leu Glu Gly Pro Ala		
325	330	335
Leu Ser His Ser Val		
340		

&lt;210&gt; 2974

&lt;211&gt; 822

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2974

Met Asn Trp Asn Lys Gly Gly Pro Gly Thr Lys Arg Gly Phe Gly Phe
1 5 10 15
Gly Gly Phe Ala Ile Ser Ala Gly Lys Lys Glu Glu Pro Lys Leu Pro
20 25 30
Gln Gln Ser His Ser Ala Phe Gly Ala Thr Ser Ser Ser Ser Gly Phe
35 40 45
Gly Lys Ser Ala Pro Pro Gln Leu Pro Ser Phe Tyr Lys Ile Gly Ser

50	55	60
Lys Arg Ala Asn Phe Asp Glu Glu Asn Ala Tyr Phe Glu Asn Glu Glu		
65	70	75
Glu Asp Ser Ser Asn Val Asp Leu Pro Tyr Ile Pro Ala Glu Asn Ser		
85	90	95
Pro Thr Arg Gln Gln Phe His Ser Lys Pro Val Asp Ser Asp Ser Asp		
100	105	110
Asp Asp Pro Leu Glu Ala Phe Met Ala Glu Val Glu Asp Gln Ala Ala		
115	120	125
Arg Asp Met Lys Arg Leu Glu Glu Lys Asp Lys Glu Arg Lys Asn Val		
130	135	140
Lys Gly Ile Arg Asp Asp Ile Glu Glu Glu Asp Asp Gln Glu Ala Tyr		
145	150	155
Phe Arg Tyr Met Ala Glu Asn Pro Thr Ala Gly Val Val Gln Glu Glu		
165	170	175
Glu Glu Asp Asn Leu Glu Tyr Asp Ser Asp Gly Asn Pro Ile Ala Pro		
180	185	190
Thr Lys Lys Ile Ile Asp Pro Leu Pro Pro Ile Asp His Ser Glu Ile		
195	200	205
Asp Tyr Pro Pro Phe Glu Lys Asn Phe Tyr Asn Glu His Glu Glu Ile		
210	215	220
Thr Asn Leu Thr Pro Gln Gln Leu Ile Asp Leu Arg His Lys Leu Asn		
225	230	235
Leu Arg Val Ser Gly Ala Ala Pro Pro Arg Pro Gly Ser Ser Phe Ala		
245	250	255
His Phe Gly Phe Asp Glu Gln Leu Met His Gln Ile Arg Lys Ser Glu		
260	265	270
Tyr Thr Gln Pro Thr Pro Ile Gln Cys Gln Gly Val Pro Val Ala Leu		
275	280	285
Ser Gly Arg Asp Met Ile Gly Ile Ala Lys Thr Gly Ser Gly Lys Thr		
290	295	300
Ala Ala Phe Ile Trp Pro Met Leu Ile His Ile Met Asp Gln Lys Glu		
305	310	315
Leu Glu Pro Gly Asp Gly Pro Ile Ala Val Ile Val Cys Pro Thr Arg		
325	330	335
Glu Leu Cys Gln Gln Ile His Ala Glu Cys Lys Arg Phe Gly Lys Ala		

340	345	350
Tyr Asn Leu Arg Ser Val Ala Val Tyr Gly Gly Gly Ser Met Trp Glu		
355	360	365
Gln Ala Lys Ala Leu Gln Glu Gly Ala Glu Ile Val Val Cys Thr Pro		
370	375	380
Gly Arg Leu Ile Asp His Val Lys Lys Lys Ala Thr Asn Leu Gln Arg		
385	390	395
Val Ser Tyr Leu Val Phe Asp Glu Ala Asp Arg Met Phe Asp Met Gly		
405	410	415
Phe Glu Tyr Gln Val Arg Ser Ile Ala Ser His Val Arg Pro Asp Arg		
420	425	430
Gln Thr Leu Leu Phe Ser Ala Thr Phe Arg Lys Lys Ile Glu Lys Leu		
435	440	445
Ala Arg Asp Ile Leu Ile Asp Pro Ile Arg Val Val Gln Gly Asp Ile		
450	455	460
Gly Glu Ala Asn Glu Asp Val Thr Gln Ile Val Glu Ile Leu His Ser		
465	470	475
Gly Pro Ser Lys Trp Asn Trp Leu Thr Arg Arg Leu Val Glu Phe Thr		
485	490	495
Ser Ser Gly Ser Val Leu Leu Phe Val Thr Lys Lys Ala Asn Ala Glu		
500	505	510
Glu Leu Ala Asn Asn Leu Lys Gln Glu Gly His Asn Leu Gly Leu Leu		
515	520	525
His Gly Asp Met Asp Gln Ser Glu Arg Asn Lys Val Ile Ser Asp Phe		
530	535	540
Lys Lys Lys Asp Ile Pro Val Leu Val Ala Thr Asp Val Ala Ala Arg		
545	550	555
Gly Leu Asp Ile Pro Ser Ile Lys Thr Val Ile Asn Tyr Asp Val Ala		
565	570	575
Arg Asp Ile Asp Thr His Thr His Arg Ile Gly Arg Thr Gly Arg Ala		
580	585	590
Gly Glu Lys Gly Val Ala Tyr Thr Leu Leu Thr Pro Lys Asp Ser Asn		
595	600	605
Phe Ala Gly Asp Leu Val Arg Asn Leu Glu Gly Ala Asn Gln His Val		
610	615	620
Ser Lys Glu Leu Leu Asp Leu Ala Met Gln Asn Ala Trp Phe Arg Lys		

625                      630                      635                      640  
 Ser Arg Phe Lys Gly Gly Lys Gly Lys Lys Leu Asn Ile Gly Gly Gly  
                             645                      650                      655  
 Gly Leu Gly Tyr Arg Glu Arg Pro Gly Leu Gly Ser Glu Asn Met Asp  
                             660                      665                      670  
 Arg Gly Asn Asn Asn Val Met Ser Asn Tyr Glu Ala Tyr Lys Pro Ser  
                             675                      680                      685  
 Thr Gly Ala Met Gly Asp Arg Leu Thr Ala Met Lys Ala Ala Phe Gln  
                             690                      695                      700  
 Pro Gln Tyr Lys Ser His Phe Val Ala Ala Ser Leu Ser Asn Gln Lys  
 705                      710                      715                      720  
 Ala Gly Ser Ser Ala Ala Gly Ala Ser Gly Trp Thr Ser Ala Gly Ser  
                             725                      730                      735  
 Leu Asn Ser Val Pro Thr Asn Ser Ala Gln Gln Gly His Asn Ser Pro  
                             740                      745                      750  
 Asp Ser Pro Val Thr Leu Asn Ile Ser Gly Leu Ser Val Ser Phe Ser  
                             755                      760                      765  
 Cys Leu Leu Ser Gly Pro Leu Ala Ala Ala Gly Met Cys Val Cys Glu  
                             770                      775                      780  
 Gly Leu Leu Pro Ile Pro Leu Ala Pro Gly Ala Trp Cys Leu Lys Arg  
 785                      790                      795                      800  
 Trp Cys Val Pro Cys Gln Ala Thr Leu Lys Asn Ile Tyr Val Gln Gln  
                             805                      810                      815  
 Gln Tyr Asn Ser Thr Arg  
                             820

<210> 2975

<211> 207

<212> PRT

<213> Homo sapiens

<400> 2975

Met Ala Leu Gln Leu Arg Trp Phe Lys His Arg Arg Pro Phe Phe Leu  
   1                      5                      10                      15  
 Leu Leu Ile Ala Gln Leu Cys Val His Trp Pro Pro His Leu Pro Pro

&lt;211&gt; 124

<213> Homo sapiens

Met Leu Pro Arg Leu Glu Cys Ser Gly Val Ile Ser Ala His Cys Ser  
1 5 10 15  
Leu His Leu Leu Gly Ser Ser Ser Pro Pro Thr Ser Thr Ser Leu Arg  
20 25 30  
Ala Glu Thr Thr Gly Val Ser His His Ala Trp Leu Ile Phe Arg Asp

```

          35              40              45
Arg Val Ser Pro Ser Cys Pro Gly Trp Ser Gln Thr Pro Gly Leu Lys
   50              55              60
Gln Ser Ser Cys Leu Ser Leu Pro Glu Tyr Trp Asp Tyr Arg Cys Glu
   65              70              75              80
Pro Leu Pro Glu Lys Arg Phe Leu Arg Gln Gly Arg Ser Tyr Ile Ile
          85              90              95
Phe Lys Phe Phe Leu Met Met Ser Phe Leu Ala Val His Ser Gln Arg
          100              105              110
Thr Thr His His Thr Gln Glu Thr Val Val Leu Met
          115              120

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<210> 2977

<211> 139

<212> PRT

<213> Homo sapiens

<400> 2977

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Met Tyr Asn Pro Trp Gln Val Gly Ala Ser Leu Ala Pro Ala Arg Ala
   1              5              10              15
Gly Pro Arg Pro Phe Pro Thr Pro Arg Ala Arg Pro Pro Asp Cys Ser
          20              25              30
Gly Gly His Ala Pro Ser Gly Phe Pro Ala Leu Gly Leu Arg Thr Ala
          35              40              45
Gln Arg Pro Arg Pro Phe Ser Ser Ser Pro Arg Ser Ala Ser Gly Arg
          50              55              60
Leu Arg Gly Pro Arg Pro Val Ala Arg Gly Pro Ala His Ser Ser Ser
          65              70              75              80
Pro Thr Gly Leu Pro Ala Tyr Leu Pro Pro Ala Ala Ala Leu Asp Ser
          85              90              95
Gln Thr Ser Ala Pro Thr Val Ser Pro Val Thr Arg Pro Arg Val Val
          100              105              110
Ala Arg Gly Lys Thr Pro Arg Val Ser Leu Ala Gly Leu Glu Thr Leu
          115              120              125
Ser Ser Leu Leu His Gln Gln Gln Leu Phe Asp

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130

135

&lt;210&gt; 2978

&lt;211&gt; 128

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2978

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Met Gly Thr Ala Ala Gly Ala Glu Gly Pro Cys Pro Trp Gly Ala Arg
  1             5             10             15
Arg Ala Gly Arg Gln Gln Ala Arg Ala Ser Leu Thr Glu Arg Thr Pro
          20             25             30
Ala Glu Gly Leu Ala Leu Arg Gly Ala Gly Gln Gly His Thr Gly Val
          35             40             45
Leu Pro Leu Pro Gly Gln Arg Asp Gly Val Val Gly Arg Trp Gln Gln
          50             55             60
Ala Ser Phe Arg Arg Asp Ala Gln Glu Ala Thr Leu Asn Glu Pro His
          65             70             75             80
Leu Leu Arg Val Arg Phe Asp Leu Phe Leu Arg Pro Arg Arg Ile Asn
          85             90             95
Ser Asp Leu Ile Gly Phe Gly Ala Gly Arg Arg Gly Val Arg Leu Ala
          100            105            110
Ser Pro Leu Pro Ala Leu Leu Pro Cys Thr Asp Val Ile Cys Val Ser
          115            120            125

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&lt;210&gt; 2979

&lt;211&gt; 235

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2979

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Met Val Lys Asp Asp Asp Pro Ser Trp Lys Pro Thr Phe Ile Val Lys
  1             5             10             15
Pro Asp Gly Gly Cys Gln Gly Asp Gly Ile Tyr Leu Ile Lys Asp Pro

```

	20		25		30										
Ser	Asp	Ile	Arg	Leu	Ala	Gly	Thr	Leu	Gln	Ser	Arg	Pro	Ala	Val	Val
	35				40				45						
Gln	Glu	Tyr	Ile	Cys	Lys	Pro	Leu	Leu	Ile	Asp	Lys	Leu	Lys	Phe	Asp
	50				55				60						
Ile	Arg	Leu	Tyr	Val	Leu	Leu	Lys	Ser	Leu	Asp	Pro	Leu	Glu	Ile	Tyr
	65				70				75					80	
Ile	Ala	Lys	Asp	Gly	Leu	Ser	Arg	Phe	Cys	Thr	Glu	Pro	Tyr	Gln	Glu
			85					90						95	
Pro	Thr	Pro	Lys	Asn	Leu	His	Arg	Ile	Phe	Met	His	Leu	Thr	Asn	Tyr
		100						105					110		
Ser	Leu	Asn	Ile	His	Ser	Gly	Asn	Phe	Ile	His	Ser	Asp	Ser	Ala	Ser
		115						120					125		
Thr	Gly	Ser	Lys	Arg	Thr	Phe	Ser	Ser	Ile	Leu	Cys	Arg	Leu	Ser	Ser
	130							135					140		
Lys	Gly	Val	Asp	Ile	Lys	Lys	Val	Trp	Ser	Asp	Ile	Ile	Ser	Val	Val
	145				150					155				160	
Ile	Lys	Thr	Val	Ile	Ala	Leu	Thr	Pro	Glu	Leu	Lys	Val	Phe	Tyr	Gln
			165					170						175	
Ser	Asp	Ile	Pro	Thr	Gly	Arg	Pro	Gly	Pro	Thr	Cys	Phe	Gln	Ile	Leu
		180						185					190		
Gly	Phe	Asp	Ile	Leu	Leu	Met	Lys	Asn	Leu	Lys	Pro	Ile	Leu	Leu	Glu
	195							200					205		
Val	Asn	Ala	Asn	Pro	Ser	Met	Arg	Ile	Glu	His	Glu	His	Glu	Gly	Cys
	210							215					220		
Leu	Lys	Met	Ser	Pro	Ala	Ser	Leu	Met	Lys	Lys					
	225						230				235				

&lt;210&gt; 2980

&lt;211&gt; 202

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2980

Met Gly Ser Glu Gln Tyr Asp Ala Asp Ala Glu Glu Thr Gly Leu Asp  
 1 5 10 15  
 Gly Ser Trp Gly Phe Pro Gly Lys Pro Phe Thr Thr Ile His Met Gly  
 20 25 30  
 Val Pro His Ser Gly Pro Thr Leu Thr Pro Arg Thr Gly Ser Ser Asp  
 35 40 45  
 Val Ala Asp Gln Leu Trp Ala Gln Glu Arg Lys His Pro Thr Arg Leu  
 50 55 60  
 Gly Trp Gln Glu Phe Gly Leu Ser Thr Asp Pro Ile Lys Leu Pro Cys  
 65 70 75 80  
 Asn Ser Glu Asn Val Thr Trp Leu Lys Pro Arg Pro Ile Ser Arg Cys  
 85 90 95  
 Leu Ala Arg Pro Ser Ser Pro Leu Val Pro Ser Cys Ser Pro Lys Thr  
 100 105 110  
 Ala Gly Thr Leu Arg Gln Pro Thr Leu Glu Gln Ala Gln Gln Val Val  
 115 120 125  
 Ile Arg Ala His Gln Glu Gln Leu Asp Glu Met Ala Glu Leu Gly Phe  
 130 135 140  
 Lys Glu Glu Thr Leu Met Ser Gln Leu Ala Ser Asn Asp Phe Glu Asp  
 145 150 155 160  
 Phe Val Thr Gln Leu Asp Glu Ile Met Val Leu Lys Ser Lys Cys Ile  
 165 170 175  
 Gln Ser Leu Arg Ser Gln Leu Gln Leu Tyr Leu Thr Cys His Gly Pro  
 180 185 190  
 Thr Ala Ala Pro Glu Gly Thr Val Pro Ser  
 195 200

<210> 2981

<211> 1420

<212> PRT

<213> Homo sapiens

<400> 2981

Met Arg Leu Val Ala Ser Glu Leu His Thr Ser Leu Tyr Ser Ser Met  
 1 5 10 15

Val Gly Ala Asp Arg Leu Gly Thr Leu Ala Thr Ala Leu Leu Ala Phe			
20	25	30	
Pro Ser Val Gly Pro Thr Phe Pro Thr Tyr Tyr Ala His Ala Asp Thr			
35	40	45	
Leu Cys Ser Val Lys Ser Glu Glu Val Leu Arg Gly Leu Gly Lys Leu			
50	55	60	
Ile Leu Lys Arg Ser Gly Gly Lys Glu Leu Glu Gly Lys Gly Gln Lys			
65	70	75	80
Ala Cys Pro Thr Arg Glu Gln Leu Leu Met Asn Ala Leu Leu Tyr Leu			
85	90	95	
Arg Ser His Val Leu Cys Lys Gly Glu Leu Asp Gln Arg Ala Leu Gln			
100	105	110	
Leu Phe Arg His Val Cys Gln Glu Ile Ile Ser Glu Trp Asp Glu Gln			
115	120	125	
Glu Arg Ile Ala Gln Glu Lys Ala Glu Gln Glu Ser Gly Leu Tyr Arg			
130	135	140	
Tyr Arg Ser Arg Asn Ser Arg Thr Ala Leu Ser Glu Glu Glu Glu Glu			
145	150	155	160
Glu Arg Glu Phe Arg Lys Gln Phe Pro Leu His Glu Lys Asp Phe Ala			
165	170	175	
Asp Ile Leu Val Gln Pro Thr Leu Glu Glu Asn Lys Gly Thr Ser Asp			
180	185	190	
Gly Gln Glu Glu Glu Ala Gly Thr Asn Pro Ala Leu Leu Ser Gln Asn			
195	200	205	
Ser Met Gln Ala Val Met Leu Ile His Gln Gln Leu Cys Leu Asn Phe			
210	215	220	
Ala Arg Ser Leu Trp Tyr Gln Gln Thr Leu Pro Pro His Glu Ala Lys			
225	230	235	240
His Tyr Leu Ser Leu Phe Leu Ser Cys Tyr Gln Thr Gly Ala Ser Leu			
245	250	255	
Val Thr His Phe Tyr Pro Leu Met Gly Val Glu Leu Asn Asp Arg Leu			
260	265	270	
Leu Gly Ser Gln Leu Leu Ala Cys Thr Leu Ser His Asn Thr Leu Phe			
275	280	285	
Gly Glu Ala Pro Ser Asp Leu Met Val Lys Pro Asp Gly Pro Tyr Asp			
290	295	300	

Phe Tyr Gln His Pro Asn Val Pro Glu Ala Arg Gln Cys Gln Pro Val  
 305 310 315 320  
 Leu Gln Gly Phe Ser Glu Ala Val Ser His Leu Leu Gln Asp Trp Pro  
 325 330 335  
 Glu His Pro Ala Leu Glu Gln Leu Leu Val Val Met Asp Arg Ile Arg  
 340 345 350  
 Ser Phe Pro Leu Ser Ser Pro Ile Ser Lys Phe Leu Asn Gly Leu Glu  
 355 360 365  
 Ile Leu Leu Ala Lys Ala Gln Asp Trp Glu Glu Asn Ala Ser Arg Ala  
 370 375 380  
 Leu Ser Leu Arg Lys His Leu Asp Leu Ile Ser Gln Met Ile Ile Arg  
 385 390 395 400  
 Trp Arg Lys Leu Glu Leu Asn Cys Trp Ser Met Ser Leu Asp Asn Thr  
 405 410 415  
 Met Lys Arg His Thr Glu Lys Ser Thr Lys His Trp Phe Ser Thr Tyr  
 420 425 430  
 Gln Met Leu Glu Lys His Met Gln Glu Gln Thr Glu Glu Gln Glu Asp  
 435 440 445  
 Asp Lys Gln Met Thr Leu Met Leu Leu Val Ser Thr Leu Gln Ala Phe  
 450 455 460  
 Ile Glu Gly Ser Ser Leu Gly Glu Phe His Val Arg Leu Gln Met Leu  
 465 470 475 480  
 Leu Val Phe His Cys His Val Leu Leu Met Pro Gln Val Glu Gly Lys  
 485 490 495  
 Asp Ser Leu Cys Ser Val Leu Trp Asn Leu Tyr His Tyr Tyr Lys Gln  
 500 505 510  
 Phe Phe Asp Arg Val Gln Ala Lys Ile Val Glu Leu Arg Ser Pro Leu  
 515 520 525  
 Glu Lys Glu Leu Lys Glu Phe Val Lys Ile Ser Lys Trp Asn Asp Val  
 530 535 540  
 Ser Phe Trp Ser Ile Lys Gln Ser Val Glu Lys Thr His Arg Thr Leu  
 545 550 555 560  
 Phe Lys Phe Met Lys Lys Phe Glu Ala Val Leu Ser Glu Pro Cys Arg  
 565 570 575  
 Ser Ser Leu Val Glu Ser Asp Lys Glu Glu Gln Pro Asp Phe Leu Pro  
 580 585 590

Arg Pro Thr Asp Gly Ala Ala Ser Glu Leu Ser Ser Ile Gln Asn Leu  
 595 600 605  
 Asn Arg Ala Leu Arg Glu Thr Leu Leu Ala Gln Pro Ala Ala Gly Gln  
 610 615 620  
 Ala Thr Ile Pro Glu Trp Cys Gln Gly Ser Ala Pro Ser Gly Leu Glu  
 625 630 635 640  
 Gly Glu Leu Leu Arg Arg Leu Pro Lys Leu Arg Lys Arg Met Arg Lys  
 645 650 655  
 Met Cys Leu Thr Phe Met Lys Glu Ser Pro Leu Pro Arg Leu Val Glu  
 660 665 670  
 Gly Leu Asp Gln Phe Thr Gly Glu Val Ile Ser Ser Val Ser Glu Leu  
 675 680 685  
 Gln Ser Leu Lys Val Glu Pro Ser Ala Glu Lys Glu Lys Gln Arg Ser  
 690 695 700  
 Glu Ala Lys His Ile Leu Met Gln Lys Gln Arg Ala Leu Ser Asp Leu  
 705 710 715 720  
 Phe Lys His Leu Ala Lys Ile Gly Leu Ser Tyr Arg Lys Gly Leu Ala  
 725 730 735  
 Trp Ala Arg Ser Lys Asn Pro Gln Glu Met Leu His Leu His Pro Leu  
 740 745 750  
 Asp Leu Gln Ser Ala Leu Ser Ile Val Ser Ser Thr Gln Glu Ala Asp  
 755 760 765  
 Ser Arg Leu Leu Thr Glu Ile Ser Ser Ser Trp Asp Gly Cys Gln Lys  
 770 775 780  
 Tyr Phe Tyr Arg Ser Leu Ala Arg His Ala Arg Leu Asn Ala Ala Leu  
 785 790 795 800  
 Ala Thr Pro Ala Lys Glu Met Gly Met Gly Asn Val Glu Arg Cys Arg  
 805 810 815  
 Gly Phe Ser Ala His Leu Met Lys Met Leu Val Arg Gln Arg Arg Ser  
 820 825 830  
 Leu Thr Thr Leu Ser Glu Gln Trp Ile Ile Leu Arg Asn Leu Leu Ser  
 835 840 845  
 Cys Val Gln Glu Ile His Ser Arg Leu Met Gly Pro Gln Ala Tyr Pro  
 850 855 860  
 Val Ala Phe Pro Pro Gln Asp Gly Val Gln Gln Trp Thr Glu Arg Leu  
 865 870 875 880

Gln His Leu Ala Met Gln Cys Gln Ile Leu Leu Glu Gln Leu Ser Trp  
                     885                    890                    895  
 Leu Leu Gln Cys Cys Pro Ser Val Gly Pro Ala Pro Gly His Gly Asn  
                     900                    905                    910  
 Val Gln Val Leu Gly Gln Pro Pro Gly Pro Cys Leu Glu Gly Pro Glu  
                     915                    920                    925  
 Leu Ser Lys Gly Gln Leu Cys Gly Val Val Leu Asp Leu Ile Pro Ser  
                     930                    935                    940  
 Asn Leu Ser Tyr Pro Ser Pro Ile Pro Gly Ser Gln Leu Pro Ser Gly  
                     945                    950                    955                    960  
 Cys Arg Met Arg Lys Gln Asp His Leu Trp Gln Gln Ser Thr Thr Arg  
                     965                    970                    975  
 Leu Thr Glu Met Leu Lys Thr Ile Lys Thr Val Lys Ala Asp Val Asp  
                     980                    985                    990  
 Lys Ile Arg Gln Gln Ser Cys Glu Thr Leu Phe His Ser Trp Lys Asp  
                     995                    1000                    1005  
 Phe Glu Val Cys Ser Ser Ala Leu Ser Cys Leu Ser Gln Val Ser Val  
                     1010                    1015                    1020  
 His Leu Gln Gly Leu Glu Ser Leu Phe Ile Leu Pro Gly Met Glu Val  
                     1025                    1030                    1035                    1040  
 Glu Gln Arg Asp Ser Gln Met Ala Leu Val Glu Ser Leu Glu Tyr Val  
                     1045                    1050                    1055  
 Arg Gly Glu Ile Ser Lys Ala Met Ala Asp Phe Thr Thr Trp Lys Thr  
                     1060                    1065                    1070  
 His Leu Leu Thr Ser Asp Ser Gln Gly Gly Asn Gln Met Leu Asp Glu  
                     1075                    1080                    1085  
 Gly Phe Val Glu Asp Phe Ser Glu Gln Met Glu Ile Ala Ile Arg Ala  
                     1090                    1095                    1100  
 Ile Leu Cys Ala Ile Gln Asn Leu Glu Glu Arg Lys Asn Glu Lys Ala  
                     1105                    1110                    1115                    1120  
 Glu Glu Asn Thr Asp Gln Ala Ser Pro Gln Glu Asp Tyr Ala Gly Phe  
                     1125                    1130                    1135  
 Glu Arg Leu Gln Ser Gly His Leu Thr Lys Leu Leu Glu Asp Asp Phe  
                     1140                    1145                    1150  
 Trp Ala Asp Val Ser Thr Leu His Val Gln Lys Ile Ile Ser Ala Ile  
                     1155                    1160                    1165

Ser Glu Leu Leu Glu Arg Leu Lys Ser Tyr Gly Glu Asp Gly Thr Ala  
 1170 1175 1180  
 Ala Lys His Leu Phe Phe Ser Gln Ser Cys Ser Leu Leu Val Arg Leu  
 1185 1190 1195 1200  
 Val Pro Val Leu Ser Ser Tyr Ser Asp Leu Val Leu Phe Phe Leu Thr  
 1205 1210 1215  
 Met Ser Leu Ala Thr His Arg Ser Thr Ala Lys Leu Leu Ser Val Leu  
 1220 1225 1230  
 Ala Gln Val Phe Thr Glu Leu Ala Gln Lys Gly Phe Cys Leu Pro Lys  
 1235 1240 1245  
 Glu Phe Met Glu Asp Ser Ala Gly Glu Gly Ala Thr Glu Phe His Asp  
 1250 1255 1260  
 Tyr Glu Gly Gly Gly Ile Gly Glu Gly Glu Gly Met Lys Asp Val Ser  
 1265 1270 1275 1280  
 Asp Gln Ile Gly Asn Glu Glu Gln Val Glu Asp Thr Phe Gln Lys Gly  
 1285 1290 1295  
 Gln Glu Lys Asp Lys Glu Asp Pro Asp Ser Lys Ser Asp Ile Lys Gly  
 1300 1305 1310  
 Glu Asp Asn Ala Ile Glu Met Ser Glu Asp Phe Asp Gly Lys Met His  
 1315 1320 1325  
 Asp Gly Glu Leu Glu Glu Gln Glu Glu Asp Asp Glu Lys Ser Asp Ser  
 1330 1335 1340  
 Glu Gly Gly Asp Leu Asp Lys His Met Gly Asp Leu Asn Gly Glu Glu  
 1345 1350 1355 1360  
 Ala Asp Lys Leu Asp Glu Arg Leu Trp Gly Asp Asp Asp Glu Glu Glu  
 1365 1370 1375  
 Asp Glu Glu Glu Glu Asp Asn Lys Thr Glu Glu Thr Gly Pro Gly Met  
 1380 1385 1390  
 Asp Glu Glu Asp Ser Glu Leu Val Ala Lys Asp Asp Asn Leu Asp Ser  
 1395 1400 1405  
 Gly Asn Ser Asn Lys Asp Lys Ser Gln Gln Asp Lys  
 1410 1415 1420

&lt;210&gt; 2982

&lt;211&gt; 113



&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2982

```

Met Gly Gly Cys Met Ala Met His Leu Ala Tyr Arg Asn His Gln Asp
  1             5             10             15
Val Ala Gly Val Phe Ala Leu Ser Ser Phe Leu Asn Lys Ala Ser Ala
      20             25             30
Val Tyr Gln Ala Leu Gln Lys Ser Asn Gly Val Leu Pro Glu Leu Phe
      35             40             45
Gln Cys His Gly Thr Ala Asp Glu Leu Val Leu His Ser Trp Ala Glu
      50             55             60
Glu Thr Asn Ser Met Leu Lys Ser Leu Gly Val Thr Thr Lys Phe His
      65             70             75             80
Ser Phe Pro Asn Val Tyr His Glu Leu Ser Lys Thr Glu Leu Asp Ile
      85             90             95
Leu Lys Leu Trp Ile Leu Thr Lys Leu Pro Gly Glu Met Glu Lys Gln
      100            105            110
Lys

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&lt;210&gt; 2983

&lt;211&gt; 207

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2983

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Met His Ala Cys Thr His Ala His Thr His Thr His Ala His Thr Leu
  1             5             10             15
Ser Cys Lys Val Glu Ile Trp Gly Gln Tyr Leu Pro Thr His Thr His
      20             25             30
Thr His Thr His Thr His Ala His Cys Pro Val Pro Pro Tyr Thr His
      35             40             45
Ala His Ala Val Cys Thr Ser Leu His Thr His Thr His Thr His Thr

```

50	55	60
Leu Ser Leu Tyr Trp Leu Ile Ser Leu Tyr Ile His Thr His Thr His		
65	70	75
Thr His Thr His Thr His Ala Val Leu Tyr Leu Pro Thr His Thr His		
85	90	95
Thr His Ala Val Leu Thr Leu Ala Tyr Leu Pro Ile His Thr His Thr		
100	105	110
His Thr His Thr His Thr Leu Ser Cys Thr Ser Leu Tyr Thr His Thr		
115	120	125
Leu Ser Leu His Trp Leu Thr Cys Leu Tyr Thr His Thr His Ala His		
130	135	140
Ala Val Leu Tyr Leu Pro Thr His Thr His Met Leu Ser Leu His Trp		
145	150	155
Leu Pro Val Leu Leu Thr Pro Phe Gln Glu Pro Pro Gln Ala Gly His		
165	170	175
Leu Gly Pro Pro Cys Arg Val Gln Pro Trp Pro His Ser Asp Ile Gly		
180	185	190
Gly Gly Asp Ala Ala Gln Leu Arg Gly Cys Gly Ser Arg Leu Gly		
195	200	205

&lt;210&gt; 2984

&lt;211&gt; 376

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2984

Met Ala Met Thr Pro Glu Arg Gln Asn Ala Tyr Ile Ser Gln Gln Met
1 5 10 15
Ser Pro Phe Glu Ala Val Gln Glu Gln Val Thr Ser Lys Cys Ser Arg
20 25 30
Ile Lys Ala Ser Pro Pro Ser Ser Lys His Leu Met Pro Pro Arg Thr
35 40 45
Gly Leu Leu Gln Asn Asn Leu Ser Pro Gly Met Ile Pro Leu Thr Arg
50 55 60
His Gln Ser Cys Glu Gly Met Gly Val Ile Ser Pro Thr Leu Gly Lys

65	70	75	80
Arg Gln Gly Ile Phe Thr Ser Ser Pro Gln Cys Pro Ile Leu Ser His			
	85	90	95
Ser Gly Gln Thr Pro Leu Gly Arg Leu Asp Ser Val Cys Gln His Met			
	100	105	110
Gln Ser Pro Lys Ala Thr Pro Pro Glu Val Pro Leu Pro Gly Phe Cys			
	115	120	125
Pro Ser Ser Leu Gly Thr Gln Ser Leu Ser Pro His Gln Leu Arg Arg			
	130	135	140
Pro Ser Val Pro Arg Met Pro Thr Ala Phe Asn Asn Ala Ala Trp Val			
145	150	155	160
Thr Ala Ala Ala Ala Val Thr Thr Ala Val Ser Gly Lys Thr Pro Leu			
	165	170	175
Ser Gln Val Asp Asn Ser Val Gln Gln His Ser Pro Ser Gly Gln Ala			
	180	185	190
Cys Leu Gln Arg Pro Ser Asp Trp Glu Ala Gln Val Pro Ala Ala Met			
	195	200	205
Gly Thr Gln Val Pro Leu Ala Asn Asn Pro Ser Phe Ser Leu Leu Gly			
	210	215	220
Ser Gln Ser Leu Arg Gln Ser Pro Val Gln Gly Pro Val Pro Val Ala			
225	230	235	240
Asn Thr Thr Lys Phe Leu Gln Gln Gly Met Ala Ser Phe Ser Pro Leu			
	245	250	255
Ser Pro Ile Gln Gly Ile Glu Pro Pro Ser Tyr Val Ala Ala Ala Ala			
	260	265	270
Thr Ala Ala Ala Ala Ser Ala Val Ala Ala Ser Gln Phe Pro Gly Pro			
	275	280	285
Phe Asp Arg Thr Asp Ile Pro Pro Glu Leu Pro Pro Ala Asp Phe Leu			
	290	295	300
Arg Gln Pro Gln Pro Pro Leu Asn Asp Leu Ile Ser Ser Pro Asp Cys			
305	310	315	320
Asn Glu Val Asp Phe Ile Glu Ala Leu Leu Lys Gly Ser Cys Val Ser			
	325	330	335
Pro Asp Glu Asp Trp Val Cys Asn Leu Arg Leu Ile Asp Asp Ile Leu			
	340	345	350
Glu Gln His Ala Ala Ala Gln Asn Ala Thr Ala Gln Asn Ser Gly Gln			

355                      360                      365  
 Val Thr Gln Asp Ala Gly Ala Leu  
 370                      375

<210> 2985

<211> 359

<212> PRT

<213> Homo sapiens

<400> 2985

Met Asn Ser Val Ala Gly Asn Lys Glu Arg Leu Ala Val Ser Thr Arg  
 1                      5                      10                      15  
 Gly Lys Lys Tyr Gly Val Asn Glu Val Cys Ser Pro Thr Lys Pro Ala  
 20                      25                      30  
 Ala Pro Phe Ser Pro Glu Ser Trp Tyr Arg Lys Ala Tyr Glu Glu Ser  
 35                      40                      45  
 Arg Ala Gly Ser Arg Pro Thr Pro Glu Gly Ala Gly Ser Ala Leu Gly  
 50                      55                      60  
 Ser Ser Gly Thr Pro Ser Pro Gly Ser Gly Thr Ser Ser Pro Ser Ser  
 65                      70                      75                      80  
 Phe Thr Ser Ser Pro Gly Pro Ala Ser Pro Gly Ile Gly Thr Ser Ser  
 85                      90                      95  
 Pro Gly Ser Leu Gly Gly Ser Pro Gly Phe Gly Ala Gly Ser Pro Gly  
 100                      105                      110  
 Ser Gly Ser Gly Gly Gly Ser Ser Pro Gly Ser Asp Arg Gly Val Trp  
 115                      120                      125  
 Cys Glu Asn Cys Asn Ala Arg Leu Val Glu Leu Lys Arg Gln Ala Leu  
 130                      135                      140  
 Arg Leu Leu Leu Pro Gly Pro Phe Pro Gly Lys Asp Pro Ala Phe Ser  
 145                      150                      155                      160  
 Ala Val Ile His Asp Lys Leu Gln Val Pro Asn Thr Ile Arg Lys Ala  
 165                      170                      175  
 Trp Asn Asp Arg Asp Asn Arg Cys Asp Ile Cys Ala Thr His Leu Asn  
 180                      185                      190  
 Gln Leu Lys Gln Glu Ala Ile Gln Met Val Leu Thr Leu Glu Gln Ala

195	200	205
Ala Gly Ser Glu His Tyr Asp	Ala Ser Pro Cys Ser Pro	Pro Pro Leu
210	215	220
Ser Asn Ile Pro Thr Leu Val Gly	Ser Arg His Val Gly Gly	Leu Gln
225	230	235
Gln Pro Arg Asp Trp Ala Phe Val	Pro Ala Pro Cys Ala Thr	Ser Asn
245	250	255
Tyr Thr Gly Phe Ala Asn Lys His	Gly Ser Lys Pro Ser Ser	Leu Gly
260	265	270
Val Ser Asn Gly Ala Glu Lys Lys	Ser Gly Ser Pro Thr His	Gln Ala
275	280	285
Lys Val Ser Leu Gln Met Ala Thr	Ser Pro Ser Asn Gly Asn	Ile Leu
290	295	300
Asn Ser Val Ala Ile Gln Ala His	Gln Tyr Leu Asp Gly Thr	Trp Ser
305	310	315
Leu Ser Arg Thr Asn Gly Val Thr	Leu Tyr Pro Tyr Gln Ile	Ser Gln
325	330	335
Leu Met Thr Glu Ser Ser Arg Glu	Gly Leu Thr Glu Ala Ala	Ala Thr
340	345	350
Ala Ala Thr Thr Ala Ala Cys		
355		

&lt;210&gt; 2986

&lt;211&gt; 517

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2986

Met Thr Val Pro Gly Gly Phe Arg	Ser Cys Thr Glu Thr Asp Ile Ser
1	5 10 15
Ser Lys Ile Phe Ile Asn Ser Thr	Leu Thr Pro Pro Ala Gly Ser Glu
20	25 30
Arg His Tyr Asp Ala Thr Leu Leu	Thr Leu Leu Val Val Gly Ser Tyr
35	40 45
Ser Leu Cys Ile Ile Pro Leu Leu	Ala Thr Phe Thr Gly Lys Lys Thr

50	55	60	
Gly Asn Ala Ala Val Ile Lys Tyr Glu Glu Lys Pro Pro Lys Pro Ala			
65	70	75	80
Phe Gln Asn Gly Ser Ser Gly Ser Phe Tyr Leu Lys Pro Leu Val Ser			
	85	90	95
Arg Ala His Val His Leu Met Lys Thr Pro Pro Lys Gly Pro Ser Arg			
	100	105	110
Lys Asn Leu Phe Thr Ala Leu Asn Ala Val Glu Lys Ser Arg Gln Lys			
	115	120	125
Asn Pro Arg Ser Leu Cys Ile Gln Pro Gln Thr Ala Pro Asp Ala Leu			
	130	135	140
Pro Pro Glu Lys Thr Leu Glu Leu Thr Gln Tyr Lys Thr Lys Cys Glu			
	145	150	155
Asn Gln Ser Gly Phe Ile Leu Gln Leu Lys Gln Leu Leu Ala Cys Gly			
	165	170	175
Asn Thr Lys Phe Glu Ala Leu Thr Val Val Ile Gln His Leu Leu Ser			
	180	185	190
Glu Arg Glu Glu Ala Leu Lys Gln His Lys Thr Leu Ser Gln Glu Leu			
	195	200	205
Val Asn Leu Arg Gly Glu Leu Val Thr Ala Ser Thr Thr Cys Glu Lys			
	210	215	220
Leu Glu Lys Ala Arg Asn Glu Leu Gln Thr Val Tyr Glu Ala Phe Val			
	225	230	235
Gln Gln His Gln Ala Glu Lys Thr Glu Arg Glu Asn Arg Leu Lys Glu			
	245	250	255
Phe Tyr Thr Arg Glu Tyr Glu Lys Leu Arg Asp Thr Tyr Ile Glu Glu			
	260	265	270
Ala Glu Lys Tyr Lys Met Gln Leu Gln Glu Gln Phe Asp Asn Leu Asn			
	275	280	285
Ala Ala His Glu Thr Ser Lys Leu Glu Ile Glu Ala Ser His Ser Glu			
	290	295	300
Lys Leu Glu Leu Leu Lys Lys Ala Tyr Glu Ala Ser Leu Ser Glu Ile			
	305	310	315
Lys Lys Gly His Glu Ile Glu Lys Lys Ser Leu Glu Asp Leu Leu Ser			
	325	330	335
Glu Lys Gln Glu Ser Leu Glu Lys Gln Ile Asn Asp Leu Lys Ser Glu			

340 345 350  
 Asn Asp Ala Leu Asn Glu Lys Leu Lys Ser Glu Glu Gln Lys Arg Arg  
 355 360 365  
 Ala Arg Glu Lys Ala Asn Leu Lys Asn Pro Gln Ile Met Tyr Leu Glu  
 370 375 380  
 Gln Glu Leu Glu Ser Leu Lys Ala Val Leu Glu Ile Lys Asn Glu Lys  
 385 390 395 400  
 Leu His Gln Gln Asp Ile Lys Leu Met Lys Met Glu Lys Leu Val Asp  
 405 410 415  
 Asn Asn Thr Ala Leu Val Asp Lys Leu Lys Arg Phe Gln Gln Glu Asn  
 420 425 430  
 Glu Glu Leu Lys Ala Arg Met Asp Lys His Met Ala Ile Ser Arg Gln  
 435 440 445  
 Leu Ser Thr Glu Gln Ala Val Leu Gln Glu Ser Leu Glu Lys Glu Ser  
 450 455 460  
 Lys Val Asn Lys Arg Leu Ser Met Glu Asn Glu Glu Leu Leu Trp Lys  
 465 470 475 480  
 Leu His Asn Gly Asp Leu Cys Ser Pro Lys Arg Ser Pro Thr Ser Ser  
 485 490 495  
 Ala Ile Pro Leu Gln Ser Pro Arg Asn Ser Gly Ser Phe Pro Ser Pro  
 500 505 510  
 Ser Ile Ser Pro Arg  
 515

<210> 2987

<211> 541

<212> PRT

<213> Homo sapiens

<400> 2987

Met Ala Gln Leu Glu Arg Ser Ala Ile Ser Gly Phe Ser Ser Lys Ser  
 1 5 10 15  
 Arg Arg Asn Ser Phe Ala Tyr Asp Val Lys Arg Glu Val Tyr Asn Glu  
 20 25 30  
 Glu Thr Phe Gln Gln Glu His Lys Arg Lys Ala Ser Ser Ser Gly Asn

35	40	45			
Met Asn Ile Asn Ile Thr Thr Phe Arg His His Val Gln Cys Arg Cys					
50	55	60			
Ser Trp His Arg Phe Leu Arg Cys Val Leu Thr Ile Phe Pro Phe Leu					
65	70	75	80		
Glu Trp Met Cys Met Tyr Arg Leu Lys Asp Trp Leu Leu Gly Asp Leu					
85	90	95			
Leu Ala Gly Ile Ser Val Gly Leu Val Gln Val Pro Gln Gly Leu Thr					
100	105	110			
Leu Ser Leu Pro Ala Arg Gln Leu Ile Pro Pro Leu Asn Ile Ala Tyr					
115	120	125			
Ala Ala Phe Cys Ser Ser Val Ile Tyr Val Ile Phe Gly Ser Cys His					
130	135	140			
Gln Met Ser Ile Gly Ser Phe Phe Leu Val Ser Ala Leu Leu Ile Asn					
145	150	155	160		
Val Leu Lys Val Ser Pro Phe Asn Asn Gly Gln Leu Val Met Gly Ser					
165	170	175			
Phe Val Lys Asn Glu Phe Ser Ala Pro Ser Tyr Leu Met Gly Tyr Asn					
180	185	190			
Lys Ser Leu Ser Val Val Ala Thr Thr Thr Phe Leu Thr Gly Ile Ile					
195	200	205			
Gln Leu Ile Met Gly Val Leu Gly Leu Gly Phe Ile Ala Thr Tyr Leu					
210	215	220			
Pro Glu Ser Ala Met Ser Ala Tyr Leu Ala Ala Val Ala Leu His Ile					
225	230	235	240		
Met Leu Ser Gln Leu Thr Phe Ile Phe Gly Ile Met Ile Ser Phe His					
245	250	255			
Ala Gly Pro Ile Ser Phe Phe Tyr Asp Ile Ile Asn Tyr Cys Val Ala					
260	265	270			
Leu Pro Lys Ala Asn Ser Thr Ser Ile Leu Val Phe Leu Thr Val Val					
275	280	285			
Val Ala Leu Arg Ile Asn Lys Cys Ile Arg Ile Ser Phe Asn Gln Tyr					
290	295	300			
Pro Ile Glu Phe Pro Met Glu Leu Phe Leu Ile Ile Gly Phe Thr Val					
305	310	315	320		
Ile Ala Asn Lys Ile Ser Met Ala Thr Glu Thr Ser Gln Thr Leu Ile					



	325		330		335
Asp Met Ile Pro Tyr Ser Phe Leu Leu Pro Val Thr Pro Asp Phe Ser					
	340		345		350
Leu Leu Pro Lys Ile Ile Leu Gln Ala Phe Ser Leu Ser Leu Val Ser					
	355		360		365
Ser Phe Leu Leu Ile Phe Leu Gly Lys Lys Ile Ala Ser Leu His Asn					
	370		375		380
Tyr Ser Val Asn Ser Asn Gln Asp Leu Ile Ala Ile Gly Leu Cys Asn					
385		390		395	400
Val Val Ser Ser Phe Phe Arg Ser Cys Val Phe Thr Gly Ala Ile Ala					
	405		410		415
Arg Thr Ile Ile Gln Asp Lys Ser Gly Gly Arg Gln Gln Phe Ala Ser					
	420		425		430
Leu Val Gly Ala Gly Val Met Leu Leu Leu Met Val Lys Met Gly His					
	435		440		445
Phe Phe Tyr Thr Leu Pro Asn Ala Val Leu Ala Gly Ile Ile Leu Ser					
	450		455		460
Asn Val Ile Pro Tyr Leu Glu Thr Ile Ser Asn Leu Pro Ser Leu Trp					
465		470		475	480
Arg Gln Asp Gln Tyr Asp Cys Ala Leu Trp Met Met Thr Phe Ser Ser					
	485		490		495
Ser Ile Phe Leu Gly Leu Asp Ile Gly Leu Ile Ile Ser Val Val Ser					
	500		505		510
Ala Phe Phe Ile Thr Thr Val Arg Ser His Arg Tyr Phe Val Ser Gly					
	515		520		525
Asn Arg Arg Leu Thr Arg Gln Gly Lys Pro Thr Leu Thr					
	530		535		540

&lt;210&gt; 2988

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2988

Met Arg Thr Lys Pro Ser Gln Gly Phe Gly Val Ser Pro Glu Thr Pro  
 1 5 10 15  
 Leu Ser Trp Pro Gly Gly Gln Arg Ser Thr Leu Gln Glu Pro Pro Arg  
 20 25 30  
 Gly Arg Trp Ala Thr Ser Pro Asn Lys Arg His Thr Arg Arg Pro Leu  
 35 40 45  
 Ala Arg Gly Gly Ile Cys Gly Leu Pro Arg Ala Lys Ala Ala Ala Pro  
 50 55 60  
 Gly Ala Gln Pro Val Thr Gly His Leu His Ala Ser Thr Gln Gln Thr  
 65 70 75 80  
 Trp Pro Gly Gly Gln Cys Pro Trp Pro Leu Ala Asn Arg Thr Leu Trp  
 85 90 95  
 Asn Arg Arg Asn Leu Gly Ser Cys Pro Ala Leu Trp Pro Ala Ser Pro  
 100 105 110  
 Trp Met Leu Leu Pro Gly Arg Thr Glu Pro Leu Pro Val Trp Pro Val  
 115 120 125  
 Pro Ala Phe Ser Gln Ile Gln Pro Arg Pro Leu Trp Ile Arg Ser Gly  
 130 135 140  
 His Arg Gln Thr Lys Gln Ala Val Ala Ser Leu Ala Gly Ser Asp Leu  
 145 150 155 160  
 Leu Gln His Lys Glu Arg Met His Cys Thr Ala Arg Pro Leu Gly Thr  
 165 170 175  
 Glu Gly Arg Cys Ser Ala Val Ser Phe Cys Tyr Arg  
 180 185

<210> 2989

<211> 607

<212> PRT

<213> Homo sapiens

<400> 2989

Met Gln Glu Ser Gln Glu Pro Asn Leu Glu Asn Ile Trp Gly Gln Glu  
 1 5 10 15  
 Ala Ala Glu Val Asp Gln Glu Leu Val Glu Leu Leu Val Lys Glu Thr  
 20 25 30



Thr Ile Leu Tyr Lys Tyr Tyr Glu Arg Lys Ala Glu Glu Glu Val Ala  
 325 330 335  
 Ala Ala Tyr Ala Asp Glu Leu Val Arg Cys Pro Ser Cys Ser Phe Pro  
 340 345 350  
 Ala Leu Leu Asp Ser Asp Val Lys Arg Phe Ser Cys Pro Asn Pro His  
 355 360 365  
 Cys Arg Lys Glu Thr Cys Arg Lys Cys Gln Gly Leu Trp Lys Glu His  
 370 375 380  
 Asn Gly Leu Thr Cys Glu Glu Leu Ala Glu Lys Asp Asp Ile Lys Tyr  
 385 390 395 400  
 Arg Thr Ser Ile Glu Glu Lys Met Thr Ala Ala Arg Ile Arg Lys Cys  
 405 410 415  
 His Lys Cys Gly Thr Gly Leu Ile Lys Ser Glu Gly Cys Asn Arg Met  
 420 425 430  
 Ser Cys Arg Cys Gly Ala Gln Met Cys Tyr Leu Cys Arg Val Ser Ile  
 435 440 445  
 Asn Gly Tyr Asp His Phe Cys Gln His Pro Arg Ser Pro Gly Ala Pro  
 450 455 460  
 Cys Gln Glu Cys Ser Arg Cys Ser Leu Trp Thr Asp Pro Thr Glu Asp  
 465 470 475 480  
 Asp Glu Lys Leu Ile Glu Glu Ile Gln Lys Glu Ala Glu Glu Glu Gln  
 485 490 495  
 Lys Arg Lys Asn Gly Glu Asn Thr Phe Lys Arg Ile Gly Pro Pro Leu  
 500 505 510  
 Glu Lys Pro Val Glu Lys Val Gln Arg Val Glu Ala Leu Pro Arg Pro  
 515 520 525  
 Val Pro Gln Asn Leu Pro Gln Pro Gln Met Pro Pro Tyr Ala Phe Ala  
 530 535 540  
 His Pro Pro Phe Pro Leu Pro Pro Val Arg Pro Val Phe Asn Asn Phe  
 545 550 555 560  
 Pro Leu Asn Met Gly Pro Ile Pro Ala Pro Tyr Val Pro Pro Leu Pro  
 565 570 575  
 Asn Val Arg Val Asn Tyr Asp Phe Gly Pro Ile His Met Pro Leu Glu  
 580 585 590  
 His Asn Leu Pro Met His Phe Gly Pro Gln Pro Arg His Arg Phe  
 595 600 605

&lt;210&gt; 2990

&lt;211&gt; 473

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2990

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Met Asp Ile Gln Ala Met Glu Glu Asn Leu Leu Arg Ile Thr Glu Thr
  1              5              10              15
Trp Lys Ala Tyr Asn Ser Asp Phe Glu Glu Ser Asp Glu Phe Lys Leu
              20              25              30
Phe Met Lys Arg Leu Pro Met Asn Tyr Phe Leu Asn Thr Ser Thr Ile
              35              40              45
Met His Leu Trp Thr Met Asp Ser Asn Phe Gln Arg Arg Tyr Glu Gln
              50              55              60
Leu Glu Asn Ser Met Lys Gln Leu Phe Leu Lys Ala Gln Lys Ile Val
              65              70              75              80
His Lys Leu Phe Ser Leu Ser Lys Arg Cys His Lys Gln Pro Leu Ile
              85              90              95
Ser Leu Pro Arg Gln Arg Thr Ser Thr Tyr Trp Leu Thr Arg Ile Gln
              100             105             110
Ser Phe Leu Tyr Cys Asn Glu Asn Gly Leu Leu Gly Ser Phe Ser Glu
              115             120             125
Glu Thr His Ser Cys Thr Cys Pro Asn Asp Gln Val Val Cys Thr Ala
              130             135             140
Phe Leu Pro Cys Thr Val Gly Asp Ala Ser Ala Cys Leu Thr Cys Ala
              145             150             155             160
Pro Asp Asn Arg Thr Arg Cys Gly Thr Cys Asn Thr Gly Tyr Met Leu
              165             170             175
Ser Gln Gly Leu Cys Lys Pro Glu Val Ala Glu Ser Thr Asp His Tyr
              180             185             190
Ile Gly Phe Glu Thr Asp Leu Gln Asp Leu Glu Met Lys Tyr Leu Leu
              195             200             205
Gln Lys Thr Asp Arg Arg Ile Glu Val His Ala Ile Phe Ile Ser Asn
              210             215             220

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Asp	Met	Arg	Leu	Asn	Ser	Trp	Phe	Asp	Pro	Ser	Trp	Arg	Lys	Arg	Met				
225					230					235					240				
Leu	Leu	Thr	Leu	Lys	Ser	Asn	Lys	Tyr	Lys	Ser	Ser	Leu	Val	His	Met				
245					250					255									
Ile	Leu	Gly	Leu	Ser	Leu	Gln	Ile	Cys	Leu	Thr	Lys	Asn	Ser	Thr	Leu				
260					265					270									
Glu	Pro	Val	Leu	Ala	Val	Tyr	Val	Asn	Pro	Phe	Gly	Gly	Ser	His	Ser				
275					280					285									
Glu	Ser	Trp	Phe	Met	Pro	Val	Asn	Glu	Asn	Ser	Phe	Pro	Asp	Trp	Glu				
290					295					300									
Arg	Thr	Lys	Leu	Asp	Leu	Pro	Leu	Gln	Cys	Tyr	Asn	Trp	Thr	Leu	Thr				
305					310					315					320				
Leu	Gly	Asn	Lys	Trp	Lys	Thr	Phe	Phe	Glu	Thr	Val	His	Ile	Tyr	Leu				
325					330					335									
Arg	Ser	Arg	Ile	Lys	Ser	Asn	Gly	Pro	Asn	Gly	Asn	Glu	Ser	Ile	Tyr				
340					345					350									
Tyr	Glu	Pro	Leu	Glu	Phe	Ile	Asp	Pro	Ser	Arg	Asn	Leu	Gly	Tyr	Met				
355					360					365									
Lys	Ile	Asn	Asn	Ile	Gln	Val	Phe	Gly	Tyr	Ser	Met	His	Phe	Asp	Pro				
370					375					380									
Glu	Ala	Ile	Arg	Asp	Leu	Ile	Leu	Gln	Leu	Asp	Tyr	Pro	Tyr	Thr	Gln				
385					390					395					400				
Gly	Ser	Gln	Asp	Ser	Ala	Leu	Leu	Gln	Leu	Leu	Glu	Phe	Arg	Asp	Arg				
405					410					415									
Val	Asn	Lys	Leu	Ser	Pro	Pro	Gly	Gln	Arg	Arg	Leu	Asp	Leu	Phe	Ser				
420					425					430									
Cys	Leu	Leu	Arg	His	Arg	Leu	Lys	Leu	Ser	Thr	Ser	Glu	Val	Val	Arg				
435					440					445									
Ile	Gln	Ser	Ala	Leu	Gln	Ala	Phe	Asn	Ala	Lys	Leu	Pro	Asn	Thr	Met				
450					455					460									
Asp	Tyr	Asp	Thr	Thr	Lys	Leu	Cys	Ser											
465					470														

&lt;210&gt; 2991

&lt;211&gt; 419

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 2991

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Met Leu Ala Ala Ala Phe Ala Asp Ser Asn Ser Ser Ser Met Asn Val
  1              5              10              15
Ser Phe Ala His Leu His Phe Ala Gly Gly Tyr Leu Pro Ser Asp Ser
      20              25              30
Gln Asp Trp Arg Thr Ile Ile Pro Ala Leu Leu Val Ala Val Cys Leu
      35              40              45
Val Gly Phe Val Gly Asn Leu Cys Val Ile Gly Ile Leu Leu His Asn
      50              55              60
Ala Trp Lys Gly Lys Pro Ser Met Ile His Ser Leu Ile Leu Asn Leu
      65              70              75              80
Ser Leu Ala Asp Leu Ser Leu Leu Leu Phe Ser Ala Pro Ile Arg Ala
      85              90              95
Thr Ala Tyr Ser Lys Ser Val Trp Asp Leu Gly Trp Phe Val Cys Lys
      100             105             110
Ser Ser Asp Trp Phe Ile His Thr Cys Met Ala Ala Lys Ser Leu Thr
      115             120             125
Ile Val Val Val Ala Lys Val Cys Phe Met Tyr Ala Ser Asp Pro Ala
      130             135             140
Lys Gln Val Ser Ile His Asn Tyr Thr Ile Trp Ser Val Leu Val Ala
      145             150             155             160
Ile Trp Thr Val Ala Ser Leu Leu Pro Leu Pro Glu Trp Phe Phe Ser
      165             170             175
Thr Ile Arg His His Glu Gly Val Glu Met Cys Leu Val Asp Val Pro
      180             185             190
Ala Val Ala Glu Glu Phe Met Ser Met Phe Gly Lys Leu Tyr Pro Leu
      195             200             205
Leu Ala Phe Gly Leu Pro Leu Phe Phe Ala Ser Phe Tyr Phe Trp Arg
      210             215             220
Ala Tyr Asp Gln Cys Lys Lys Arg Gly Thr Lys Thr Gln Asn Leu Arg
      225             230             235             240
Asn Gln Ile Arg Ser Lys Gln Val Thr Val Met Leu Leu Ser Ile Ala
      245             250             255

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Ile Ile Ser Ala Leu Leu Trp Leu Pro Glu Trp Val Ala Trp Leu Trp  
 260 265 270  
 Val Trp His Leu Lys Ala Ala Gly Pro Ala Pro Pro Gln Gly Phe Ile  
 275 280 285  
 Ala Leu Ser Gln Val Leu Met Phe Ser Ile Ser Ser Ala Asn Pro Leu  
 290 295 300  
 Ile Phe Leu Val Met Ser Glu Glu Phe Arg Glu Gly Leu Lys Gly Val  
 305 310 315 320  
 Trp Lys Trp Met Ile Thr Lys Lys Pro Pro Thr Val Ser Glu Ser Gln  
 325 330 335  
 Glu Thr Pro Ala Gly Asn Ser Glu Gly Leu Pro Asp Lys Val Pro Ser  
 340 345 350  
 Pro Glu Ser Pro Ala Ser Ile Pro Glu Lys Glu Lys Pro Ser Ser Pro  
 355 360 365  
 Ser Ser Gly Lys Gly Lys Thr Glu Lys Ala Glu Ile Pro Ile Leu Pro  
 370 375 380  
 Asp Val Glu Gln Phe Trp His Glu Arg Asp Thr Val Pro Ser Val Gln  
 385 390 395 400  
 Asp Asn Asp Pro Ile Pro Trp Glu His Glu Asp Gln Glu Thr Gly Glu  
 405 410 415  
 Gly Val Lys

<210> 2992

<211> 189

<212> PRT

<213> Homo sapiens

<400> 2992

Met Thr Pro Pro Gly Thr Ser Tyr Pro Ser Gln Thr Pro Val Gln Pro  
 1 5 10 15  
 Ala Pro Asp Val Asp Tyr Asp Ser Ala Thr Ser Ala Gly Ser Glu Val  
 20 25 30  
 Gly Val Ser Pro Ser Cys Arg Arg Val Trp Ala Ala Pro Leu Gln Thr  
 35 40 45



Ser Cys Ala Pro Trp Ala Ala Pro His Leu His Pro His Pro Arg Gly  
 50 55 60  
 Ser Ala Pro Lys Ala Ala Ala Ser Gly Glu Ala Arg Ser Pro Arg Ser  
 65 70 75 80  
 Ser Trp Trp Gly Glu Arg Arg Arg Pro Ser Glu Asp Ala Leu Gly Thr  
 85 90 95  
 Trp Glu Arg Lys Glu Gly Lys Glu Glu Gly Lys Gly Ala Val Asp Val  
 100 105 110  
 Phe Asp Val Cys Ala Leu Met Glu Ala Thr Asn Ile Glu Lys Thr Gly  
 115 120 125  
 Leu Ala Glu Ala Ala Arg Thr Leu Leu Leu Ala Ser Ala Arg Val Lys  
 130 135 140  
 Ala Arg Ala Asn Arg Gly Leu Ser Gly Cys Pro Lys Gly Ala Asp Thr  
 145 150 155 160  
 Trp Phe Ser Thr Gly Thr Gln Asn Ser His Arg Gly Arg Lys Met Arg  
 165 170 175  
 Ser Leu Cys Leu Pro Val Gly Lys Arg Asp Ile Gln Lys  
 180 185

<210> 2993

<211> 401

<212> PRT

<213> Homo sapiens

<400> 2993

Met Ala Cys Leu Glu Phe Val Pro Phe Asp Val Gln Met Cys Leu Glu  
 1 5 10 15  
 Phe Leu Pro Ser Gly Glu Phe Val Val Leu Leu Thr Ser Gly Val Gln  
 20 25 30  
 Leu Gln Thr Phe Thr Ala Ser Val Thr Asp Leu Lys Gly Gly Ala Ser  
 35 40 45  
 Gly Val Val Arg Ser Ser Arg Trp Val Arg Gly Phe Thr Asp Phe Arg  
 50 55 60  
 Ser Lys Ala Val Asp Leu Cys Gly Pro Lys Pro Val Val Phe Leu Gln  
 65 70 75 80

His	Gly	Leu	Leu	Ala	Asp	Ser	Ser	Asn	Trp	Val	Thr	Asn	Leu	Ala	Asn	
				85							90			95		
Ser	Ser	Leu	Gly	Phe	Ile	Leu	Ala	Asp	Ala	Gly	Phe	Asp	Val	Trp	Met	
				100							105			110		
Gly	Asn	Ser	Arg	Gly	Asn	Thr	Trp	Ser	Arg	Lys	His	Lys	Thr	Leu	Ser	
				115							120			125		
Val	Ser	Gln	Asp	Glu	Phe	Trp	Ala	Phe	Arg	Val	Pro	Phe	Leu	Asp	Tyr	
				130							135			140		
Ser	Tyr	Asp	Glu	Met	Ala	Lys	Tyr	Asp	Leu	Pro	Ala	Ser	Ile	Asn	Phe	
				145							150			155		
Ile	Leu	Asn	Lys	Thr	Gly	Gln	Glu	Gln	Val	Tyr	Tyr	Val	Gly	His	Ser	
				165							170			175		
Gln	Gly	Thr	Thr	Ile	Gly	Phe	Ile	Ala	Phe	Ser	Gln	Ile	Pro	Glu	Leu	
				180							185			190		
Ala	Lys	Arg	Ile	Lys	Met	Phe	Phe	Ala	Leu	Gly	Pro	Val	Ala	Ser	Val	
				195							200			205		
Ala	Phe	Cys	Thr	Ser	Pro	Met	Ala	Lys	Leu	Gly	Arg	Leu	Pro	Asp	His	
				210							215			220		
Leu	Ile	Lys	Asp	Leu	Phe	Gly	Asp	Lys	Glu	Phe	Leu	Pro	Gln	Ser	Ala	
				225							230			235		
Phe	Leu	Lys	Trp	Leu	Gly	Thr	His	Val	Cys	Thr	His	Val	Ile	Leu	Lys	
				245							250			255		
Glu	Leu	Cys	Gly	Asn	Leu	Cys	Phe	Leu	Leu	Cys	Gly	Phe	Asn	Glu	Arg	
				260							265			270		
Asn	Leu	Asn	Met	Ser	Arg	Val	Asp	Val	Tyr	Thr	Thr	His	Ser	Pro	Ala	
				275							280			285		
Gly	Thr	Ser	Val	Gln	Asn	Met	Leu	His	Trp	Ser	Gln	Ala	Val	Lys	Phe	
				290							295			300		
Gln	Lys	Phe	Gln	Ala	Phe	Asp	Trp	Gly	Ser	Ser	Ala	Lys	Asn	Tyr	Phe	
				305							310			315		
His	Tyr	Asn	Gln	Ser	Tyr	Pro	Pro	Thr	Tyr	Asn	Val	Lys	Asp	Met	Leu	
				325							330			335		
Val	Pro	Thr	Ala	Val	Trp	Ser	Gly	Gly	His	Asp	Trp	Leu	Ala	Asp	Val	
				340							345			350		
Tyr	Asp	Val	Asn	Ile	Leu	Leu	Thr	Gln	Ile	Thr	Asn	Leu	Val	Phe	His	
				355							360			365		

Glu Ser Ile Pro Glu Trp Glu His Leu Asp Phe Ile Trp Gly Leu Asp  
 370 375 380  
 Ala Pro Trp Arg Leu Tyr Asn Lys Ile Ile Asn Leu Met Arg Lys Tyr  
 385 390 395 400  
 Gln

<210> 2994

<211> 215

<212> PRT

<213> Homo sapiens

<400> 2994

Met His Val Cys Thr Gly Ala Ser Lys Pro Leu Val Ser Thr Pro Tyr  
 1 5 10 15  
 His Pro Thr Pro Thr Ser Leu Ile Ser Ala Pro Ser Leu Gly Cys Ala  
 20 25 30  
 Pro Leu Leu Ser Ala Arg Gly Cys Leu His Val Gly Val Cys Met Trp  
 35 40 45  
 Val Ser Val Pro Ser Ser Val Ser Cys Leu His Val Gly Val Cys Thr  
 50 55 60  
 Leu Thr Cys Leu Val Ser Ala Gln Ala Cys Val Gly Val Pro Ala Gly  
 65 70 75 80  
 Leu Phe Gly Gly Arg Pro Val Ile Leu Glu Val Thr His Val Phe Cys  
 85 90 95  
 Gly Cys Leu Leu Leu Ala Pro His Ser Val Glu Met Gly Leu His Trp  
 100 105 110  
 Pro Arg Leu Ser Pro Ala His Pro Pro Pro Ser Leu Pro Ala Ser Lys  
 115 120 125  
 Pro Arg Asn Ser Gly Phe Arg Gly Pro Ser Gln Val Ser Thr Trp Gln  
 130 135 140  
 Gln Cys Leu Gln Thr Pro Gly Trp Pro Ile Cys Pro Pro Ala Arg Leu  
 145 150 155 160  
 Ser Asp Leu Ser Leu Pro Gly Cys Pro Cys Leu His Pro Ser Ser Pro  
 165 170 175

Ser His Cys Arg Cys Leu Pro Thr Ser His Pro Trp Val Pro Ser Gln  
                   180                  185                  190  
 Pro Leu Trp Pro Pro Gln Leu Gly Pro Leu Ser Ser Arg Leu Pro His  
                   195                  200                  205  
 Pro Val Leu Leu Pro Pro Ser  
                   210                  215

<210> 2995

<211> 358

<212> PRT

<213> Homo sapiens

<400> 2995

Met Glu Gly Glu Gly Val Arg Asn Phe Lys Glu Leu Arg Ala Lys Phe  
   1                  5                  10                  15  
 Gln Asn Leu Asp Ala Pro Pro Leu Pro Gly Pro Ile Lys Phe Pro Ala  
                   20                  25                  30  
 Gly Val Ser Pro Lys Gly Asp Ile Gly Gly Thr Gln Ser Thr Gln Ile  
                   35                  40                  45  
 Leu Ala Asn Gly Lys Pro Leu Ser Ser Asn His Lys Gln Arg Thr Pro  
                   50                  55                  60  
 Tyr Cys Ser Ser Ser Glu Ser Gln Pro Leu Gln Pro Gln Lys Ile Lys  
   65                  70                  75                  80  
 Leu Ala Gln Lys Ser Glu Ile Pro Lys Cys Ser Asn Ser Pro Gly Pro  
                   85                  90                  95  
 Leu Gly Lys Ser Thr Val Cys Ser Ala Thr Ser Ser Gln Lys Ala Ser  
                   100                  105                  110  
 Leu Leu Leu Glu Val Thr Gln Ser Asn Val Glu Ile Ile Thr Lys Glu  
                   115                  120                  125  
 Lys Val Met Val Ala Asn Ser Phe Arg Asn Lys Leu Trp Asn Trp Glu  
                   130                  135                  140  
 Lys Val Ser Ser Gln Lys Ser Glu Met Ser Ser Ala Leu Leu Leu Ala  
   145                  150                  155                  160  
 Asn Tyr Gly Ser Lys Ala Ile His Leu Glu Gly Gln Lys Gly Met Gly  
                   165                  170                  175

Leu Thr Pro Glu Glu Pro Arg Lys Lys Leu Glu Thr Lys Gly Ala Gln  
                   180                  185                  190  
 Thr Leu Pro Ser Gln Lys His Val Val Ala Pro Lys Ile Leu His Asn  
                   195                  200                  205  
 Val Ser Glu Asp Pro Ser Phe Val Ile Ser Gln His Ile Arg Lys Ser  
                   210                  215                  220  
 Trp Glu Asn Pro Pro Pro Glu Arg Ser Pro Ala Ser Ser Pro Cys Gln  
 225                  230                  235                  240  
 Pro Ile Tyr Glu Cys Glu Leu Ala Ser Gln Ala Pro Glu Lys Gln Pro  
                   245                  250                  255  
 Asp Val Arg His His His Leu Pro Lys Thr Lys Pro Leu Pro Ser Ile  
                   260                  265                  270  
 Asp Ser Leu Gly Pro Pro Pro Pro Lys Pro Ser Arg Pro Pro Ile Val  
                   275                  280                  285  
 Asn Leu Gln Ala Phe Gln Arg Gln Pro Ala Ala Val Pro Lys Thr Gln  
                   290                  295                  300  
 Gly Glu Val Thr Val Glu Glu Gly Ser Leu Ser Pro Glu Arg Leu Phe  
 305                  310                  315                  320  
 Asn Ala Glu Phe Glu Glu Pro His Asn Tyr Glu Ala Thr Ile Ser Tyr  
                   325                  330                  335  
 Leu Arg His Ser Gly Asn Ser Ile Asn Leu Cys Thr Ala Lys Glu Ile  
                   340                  345                  350  
 Ala Asp Arg Arg Cys Leu  
                   355

<210> 2996

<211> 261

<212> PRT

<213> Homo sapiens

<400> 2996

Met Thr Ile Gln Arg Leu Lys Gly Ser Ser His Ala Val His Glu Met  
           1                  5                  10                  15  
 Lys Ser Leu Lys Gln Glu Lys Ala Pro Val Ser Lys Thr Tyr Lys Val  
                   20                  25                  30

Pro Leu Asn Gly Gln Val Tyr Glu Leu Leu Thr Val Phe Met Asp Trp  
           35                          40                          45  
 Ile Ser Asp His His Leu Ser Lys Val Lys His Glu Glu Ser Gly Met  
           50                          55                          60  
 Asp Gly Lys Lys Pro Gln Leu Lys Phe Ala Ser Gln Arg Asn Asp Ile  
           65                          70                          75                          80  
 Gln Glu Lys Cys Val Lys Leu Leu Pro Leu Met Thr Glu Gln Leu Gln  
                                   85                                  90                                  95  
 Trp Met Pro Phe Val Asn Ile Lys Leu His Glu Pro Phe Val Lys Phe  
                           100                          105                          110  
 Ile Tyr Trp Ser Leu Arg Gln Leu Asp Ala Gly Ala Gln His Ser Thr  
                           115                          120                          125  
 Met Thr Ser Thr Leu Arg Arg Leu Gly Glu Asp Ile Phe Lys Gly Val  
                           130                          135                          140  
 Val Thr Lys Gly Ile Gln Asp Asn Ser Pro Gln His Ser Val Glu Asn  
           145                          150                          155                          160  
 Lys Pro Lys Thr Ala Ala Phe Phe Lys Ser Ser Asn Leu Pro Leu Arg  
                           165                          170                          175  
 Phe Leu Ser Thr Leu Ile Val Leu Lys Thr Val Thr Gln Ala Asp Tyr  
                           180                          185                          190  
 Leu Ala Gln Ala Phe Asp Ser Leu Cys Leu Asp Leu Lys Thr Glu Glu  
                           195                          200                          205  
 Gly Lys Thr Leu Phe Leu Glu Tyr Gln Ala Val Pro Val Ile Leu Ser  
                           210                          215                          220  
 His Leu Arg Ile Ser Ser Lys Gly Leu Leu Ser Asn Val Ile Asp Ser  
           225                          230                          235                          240  
 Leu Leu Gln Met Thr Val Glu Ser Arg Val Ile Arg Ser Ser Leu Asn  
                           245                          250                          255  
 Phe Leu Arg Phe Ile  
                           260

&lt;210&gt; 2997

&lt;211&gt; 151

&lt;212&gt; PRT

<213> Homo sapiens

<400> 2997

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Met Tyr Gly Cys Tyr Thr Pro Thr Ala Tyr Ser Thr Arg Ser Ala Pro
 1             5             10             15
Glu Glu Asp Trp Val Lys Leu Cys Lys Phe Gly Phe Pro Gly Asn Ala
      20             25             30
Leu His Tyr Ser Ala Pro Asp Leu Pro Thr Thr Pro Val Gly Thr Arg
      35             40             45
Ser Ser Thr His Leu Ala Glu Leu Met Thr Ala Trp Ala Gln Arg Ser
      50             55             60
Ala His Cys Ala Asn Thr Arg Thr Gly Ile Ala Pro Leu Pro Glu Pro
 65             70             75             80
Pro Tyr Arg Ala Pro Phe Lys Glu Leu Ala Thr Pro Leu Thr Cys Lys
      85             90             95
Gln Pro Pro Thr Leu Lys Leu Ile Arg Thr Arg Val Phe His Pro Lys
      100            105            110
Gly Leu Cys Cys Gly Arg Cys Ser Asp Pro Arg Arg Gly Arg Glu Val
      115            120            125
Pro Lys Ala Thr Ala Arg Gly Trp Gly Thr Pro Leu Leu Thr Leu Val
      130            135            140
Leu Asp Phe Glu Gly Pro Asn
145             150

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<210> 2998

<211> 146

<212> PRT

<213> Homo sapiens

<400> 2998

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Met Pro Arg Gly Leu Arg Pro Gly Cys Pro Val Arg Thr Gly Arg Leu
 1             5             10             15
Val Thr Leu Glu Ser Pro Leu Gln Val Pro Ala Pro Pro Gly Asn Pro
      20             25             30
Gln Pro Pro Arg Arg Ala Trp Ala Ser Pro Tyr Arg Trp Gly Ala Ala

```

35 40 45  
 Gln Cys Thr Pro Glu Gly Gly Arg Arg Gly Leu Gly Thr Pro Pro Val  
 50 55 60  
 Leu Arg Arg Arg Gly Leu Arg Arg Cys Cys Pro Pro Gln Arg Ala Leu  
 65 70 75 80  
 Gly Leu Gly Leu Arg Arg Ser Lys Cys Leu Pro Gly Ala Gly Arg Gln  
 85 90 95  
 Gly Gly Ala Gly Ala Ala Arg Cys Ala Ala Ala Leu Gly Arg Arg Arg  
 100 105 110  
 Arg Thr Gly Ala Arg Gly Val Arg Gly Ala Arg Gln Ala Ala Ser Ala  
 115 120 125  
 Leu Ala Leu Arg Gly Arg Arg Asp Ser Arg Asp Arg Pro Trp Gly Pro  
 130 135 140  
 Gly Val  
 145

<210> 2999

<211> 350

<212> PRT

<213> Homo sapiens

<400> 2999

Met Leu Gly Ala Gly Leu Ile Lys Ile Arg Gly Asp Arg Cys Trp Arg  
 1 5 10 15  
 Asp Leu Thr Cys Met Asp Phe His Tyr Glu Thr Gln Pro Met Pro Asn  
 20 25 30  
 Pro Val Ala Tyr Tyr Leu His His Ser Pro Trp Trp Phe His Arg Phe  
 35 40 45  
 Glu Thr Leu Ser Asn His Phe Ile Glu Leu Leu Val Pro Phe Phe Leu  
 50 55 60  
 Phe Leu Gly Arg Arg Ala Cys Ile Ile His Gly Val Leu Gln Ile Leu  
 65 70 75 80  
 Phe Gln Ala Val Leu Ile Val Ser Gly Asn Leu Ser Phe Leu Asn Trp  
 85 90 95  
 Leu Thr Met Val Pro Ser Leu Ala Cys Phe Asp Asp Ala Thr Leu Gly



100	105	110
Phe Leu Phe Pro Ser Gly Pro Gly Ser Leu Lys Asp Arg Val Leu Gln		
115	120	125
Met Gln Arg Asp Ile Arg Gly Ala Trp Pro Glu Pro Arg Phe Gly Ser		
130	135	140
Val Val Gln Arg Ala Ala Asn Val Ser Leu Gly Val Leu Leu Ala Trp		
145	150	155
Leu Ser Val Pro Val Val Leu Asn Leu Leu Ser Ser Arg Gln Val Met		
165	170	175
Asn Thr His Phe Asn Ser Leu His Ile Val Asn Thr Tyr Gly Ala Phe		
180	185	190
Gly Ser Ile Thr Lys Glu Arg Ala Glu Val Ile Leu Gln Gly Thr Ala		
195	200	205
Ser Ser Asn Ala Ser Ala Pro Asp Ala Met Trp Glu Asp Tyr Glu Phe		
210	215	220
Lys Cys Lys Pro Gly Asp Pro Ser Arg Arg Pro Cys Leu Ile Ser Pro		
225	230	235
Tyr His Tyr Arg Leu Asp Trp Leu Met Trp Phe Ala Ala Phe Gln Thr		
245	250	255
Tyr Glu His Asn Asp Trp Ile Ile His Leu Ala Gly Lys Leu Leu Ala		
260	265	270
Ser Asp Ala Glu Ala Leu Ser Leu Leu Ala His Asn Pro Phe Ala Gly		
275	280	285
Arg Pro Pro Pro Arg Trp Val Arg Gly Glu His Tyr Arg Tyr Lys Phe		
290	295	300
Ser Arg Pro Gly Gly Arg His Ala Ala Glu Gly Lys Trp Trp Val Arg		
305	310	315
Lys Arg Ile Gly Ala Tyr Phe Pro Pro Leu Ser Leu Glu Glu Leu Arg		
325	330	335
Pro Tyr Phe Arg Asp Arg Gly Trp Pro Leu Pro Gly Pro Leu		
340	345	350

&lt;210&gt; 3000

&lt;211&gt; 197

&lt;212&gt; PRT

<213> Homo sapiens

<400> 3000

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Met Gly Gly Ala Gly Gly Gln His Gly Thr Asp Leu His Pro Ala Leu
  1              5              10              15
Gln Thr Gly Thr Thr Ala Arg Pro Cys Cys Trp Met Val Ser Ser Val
      20              25              30
Trp Ala Pro Ser Trp Asn Thr Thr Gln Ser Thr Ala Thr Gly Thr Ala
      35              40              45
Leu Thr Glu Ala Arg Gly Pro Ala Cys Pro Gly Pro Leu Ser Leu Lys
      50              55              60
Pro Arg Leu Val Pro Pro Thr Cys Cys Val Met Val Trp Leu Pro Arg
      65              70              75              80
Pro Ser Leu Gly Trp Val Trp Gly Trp Ser Gly Leu Ala His Ala Ser
      85              90              95
His Leu Cys Leu His Leu Cys Cys His Pro Ala Pro Pro Ser Ser Ser
      100             105             110
Ser Pro Thr Ser Ser Ser Leu Cys Ala Ser Val Ser Cys Arg Lys Lys
      115             120             125
Trp Val Glu Pro Glu Arg Arg Leu Ser Glu Glu Gly Arg Gly Arg Ala
      130             135             140
Trp Gly Gly Ser Pro Thr Pro His Pro Lys Ser Gln Gly Leu Pro Pro
      145             150             155             160
Gly Ser Gly Arg Gly Arg Ser Trp Leu Cys Gly Val Val Ala Pro Leu
      165             170             175
Leu Leu Pro Cys Phe Ser His Leu Ser Cys Pro Ser Leu Val Pro Thr
      180             185             190
Ala Val His His Glu
      195

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<210> 3001

<211> 157

<212> PRT

<213> Homo sapiens

&lt;400&gt; 3001

Met Leu Ser Met Ile Cys Ser Arg Asn Leu Thr Ala Pro Asn Pro Met  
 1 5 10 15  
 Lys Asp Ala Gly Asp Met Ile Glu Met Gln Gly Phe Gly Pro Ser Leu  
 20 25 30  
 Pro Ala Trp His Leu Glu Pro Leu Cys Ser Gln Gly Ser Ser Cys Leu  
 35 40 45  
 Ser Cys Ser Ser Ser Ser Ser Pro His Ala Thr Pro Ser His Cys Ser  
 50 55 60  
 Cys Ile Pro Asp Arg Leu Pro Leu Arg Leu Leu Cys Glu Ser Met Lys  
 65 70 75 80  
 Arg Gln Ile Val Ser Arg Ala Phe Tyr Gly Trp Leu Ala His Cys Arg  
 85 90 95  
 His Leu Ser Thr Val Arg Thr His Leu Ser Ala Leu Val His His Ser  
 100 105 110  
 Val Ile Pro Pro Asp Arg Pro Pro Gly Ala Ser Ala Gly Leu Thr Lys  
 115 120 125  
 Asp Val Trp Ser Lys Tyr Gln Lys Asp Lys Lys Val Pro Thr Leu Gly  
 130 135 140  
 Phe Gln Gly His Arg Ser Arg Gly Trp Gly Gly Gln Glu  
 145 150 155

&lt;210&gt; 3002

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 3002

Met Ser Gln His Asn Cys Ser Lys Asp Gly Pro Thr Ser Gln Pro Arg  
 1 5 10 15  
 Leu Arg Thr Leu Pro Pro Ala Gly Asp Ser Gln Glu Arg Ser Asp Ser  
 20 25 30  
 Pro Glu Ile Cys His Tyr Glu Lys Ser Phe His Lys His Ser Ala Thr  
 35 40 45  
 Pro Asn Tyr Thr His Cys Gly Leu Phe Gly Asp Pro His Leu Arg Thr

50	55	60	
Phe Thr Asp Arg Phe Gln Thr Cys Lys Val Gln Gly Ala Trp Pro Leu			
65	70	75	80
Ile Asp Asn Asn Tyr Leu Asn Val Gln Val Thr Asn Thr Pro Val Leu			
	85	90	95
Pro Gly Ser Ala Ala Thr Ala Thr Ser Lys Leu Thr Ile Ile Phe Lys			
	100	105	110
Asn Phe Gln Glu Cys Val Asp Gln Lys Val Tyr Gln Ala Glu Met Asp			
	115	120	125
Glu Leu Pro Ala Ala Phe Val Asp Gly Ser Lys Asn Gly Gly Asp Lys			
	130	135	140
His Gly Ala Asn Ser Leu Lys Ile Thr Glu Lys Val Ser Gly Gln His			
145	150	155	160
Val Glu Ile Gln Ala Lys Tyr Ile Gly Thr Thr Ile Val Val Arg Gln			
	165	170	175
Val Gly Arg Tyr Leu Thr Phe Ala Val Arg Met Pro Glu Glu Val Val			
	180	185	190
Asn Ala Val Glu Asp Trp Asp Ser Gln Gly Leu Tyr Leu Cys Leu Arg			
	195	200	205
Gly Cys Pro Leu Asn Gln Gln Ile Asp Phe Gln Ala Phe His Thr Asn			
	210	215	220
Ala Glu Gly Thr Gly Ala Arg Arg Leu Ala Ala Ala Ser Pro Ala Pro			
225	230	235	240
Thr Ala Pro Glu Thr Phe Pro Tyr Glu Thr Ala Val Ala Lys Cys Lys			
	245	250	255
Glu Lys Leu Pro Val Glu Asp Leu Tyr Tyr Gln Ala Cys Val Phe Asp			
	260	265	270
Leu Arg Thr Thr Gly Asp Val Asn Phe Thr Leu Ala Ala Tyr Tyr Ala			
	275	280	285
Leu Glu Asp Val Lys Met Leu His Ser Asn Lys Asp Lys Leu His Leu			
	290	295	300
Tyr Glu Arg Thr Arg Asp Leu Pro Gly Arg Ala Ala Ala Gly Leu Pro			
305	310	315	320
Leu Ala Pro Arg Pro Leu Leu Gly Ala Leu Val Pro Leu Leu Ala Leu			
	325	330	335
Leu Pro Val Phe Arg			